Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

July 6, 1959

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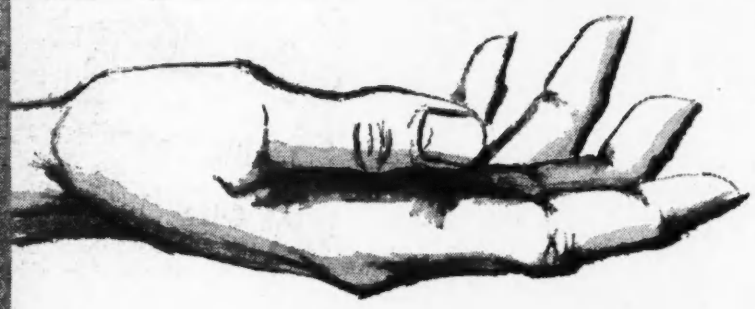

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Oil, Paint and Drug Reporter

Vol. 176 No. 1 30 Church St., New York 7, N.Y. July 6, 1959

Fuels Lure Celanese

Extending its position as a producer of synthetic organic chemicals, Celanese Corporation of America has contracted to acquire an Asheville, N. C., plant for the development and eventual output of high-energy chemical fuels for rocket and missile propulsion systems.

The plant will be owned and operated by Amcel Propulsion, Inc., in which the New York firm will have a controlling interest. It is being acquired from Oerlikon Corporation, Zurich, Switzerland, one of the world's foremost rocket and missile producers.

The plant is a completely modern facility situated on a 1,300-acre tract. Along with equipment for producing high-energy propellants and propulsion units, the Asheville facilities include a test firing range for rockets and missiles and research and development laboratories.

The facility will provide Amcel Propulsion with facilities for prototype production of advanced high-energy solid propellant systems, along with capacities for developing cast and pressed high-energy composite and double base propellants and propulsion units, motor loading and assembly.

The high-energy chemical fuel operations of Amcel Propulsion will be supported actively by the chemical division of Celanese.

Present Celanese products with important potentialities in some of the newer higher-impulse propellants include high alpha cellulose and certain monomers and polymers.

Although details cannot be disclosed at this time as to specific Celanese activity in the high-energy chemical fuel field, it was said that the company would direct efforts towards development of more advanced, powerful fuels with a view to their eventual volume production and also participation as a major supplier of raw materials for them.

Food Additive Producers Get Warning From HEW Secretary: 'Start Moving on Clearances'

Chemical producers and other suppliers of food additives are heading into troubled waters with the Food and Drug Administration unless they move more quickly on getting their additives cleared for use. Secretary of Health, Education and Welfare Arthur S. Flemming takes a dim view of what he considers lack of initiative on the part of industry to meet the requirements of the new law. He warns additive makers that he intends to consider extensions of the law "strictly in the light of the consumer- protective purposes" of the act.

March 6, 1960 is the deadline date when non-exempt additives that were in use prior to January 1, 1958 must meet requirements with respect to submission of evidence supporting claims that the additives are safe for their intended use.

What an Extension Involves

While the secretary has the authority to extend this deadline another year to March, 1961, it must be on a finding by him that such "extension involves no undue risk to the public health and that conditions exist which necessitate the prescribing of such an additional period."

At the present time, Mr. Flemming is thinking in terms of extensions of the law only in individual cases. A blanket extension of the requirements of proved safety appears to be out of the question at this time.

Mr. Flemming's prodding of additive suppliers "to get busy" is the outgrowth of a report he received from FDA Commissioner George P. Larrick indicating that of the more than 1,000 additives in use today in American foods, the agency thus far has received requests to clear only twenty-six.

Just how Mr. Flemming feels about this state of affairs is indicated by the following statement:

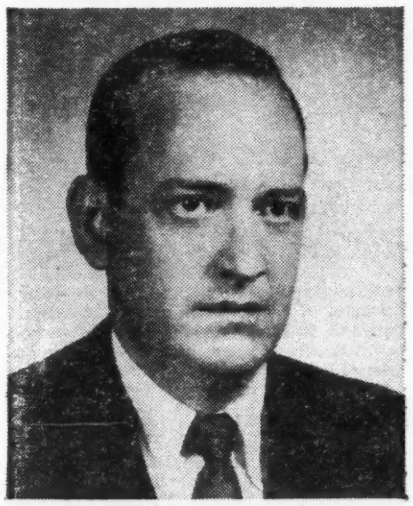
"I am informed that several hundred of the additives will undoubtedly be designated by the experts as safe for use without further testing. Nevertheless, this still leaves a long way to go in establishing the safety of the other additives by

—Continued on page 63

COMPANY CHAIRMAN: Harold Blancke, elected chairman of the board of Celanese Corporation of America, New York. President since 1945, he will continue in that post.

Sodium Borohydride Maker Seeks Place to Jump With a Lost Contract

Metal Hydrides, Inc., is attempting to answer a question that has the entire chemical industry wondering: Just where does a chemical maker jump when he has a big, lush contract pulled out from under him? The Beverly, Mass., firm is trying to answer that one because it has just lost a $13.5 million contract with the navy for the production of sodium borohydride. The problem is to come out on top after being stuck with a heavily-equipped plant and enough production momentum to have already filled half of the contract.



ADVANCED BY GULF: John T. McDonnell, promoted to director of commercial plans in the petrochemical department of Gulf Oil Corporation, Pittsburgh, Pa.

The contract was awarded in 1957, for completion in 1960, when more than $9 million worth of product was to have been delivered. About $4 million of the original contract was for acquisition and installation of plant equipment on MHI-owned land.

Contract Cancelled, Willy-Nilly

Then, willy-nilly, the government cancelled the whole business, leaving Metal Hydrides to figure out the next move.

Its resourceful president, Lewis W. Davis, was quick to see one "out." He noted that the plant's mass-production capabilities can make possible greatly reduced commercial prices for volume quantities of sodium borohydride.

That means, says Mr. Davis, that there should be a broader general market for the product. He adds that there are a number of high-quantity commercial applications in the offing—just waiting for a reduction in the commercial price schedule. He says they include such fields as plastic foams, petrochemicals, pulp and paper, and textile processing.

Until the government decided to stop taking the material, MHI had delivered more than 1,720,000 pounds. The product was being used as an intermediate in the manufacture of high-energy fuel for aircraft and guided missiles.

Mr. Davis says that for commercial pro-

—Continued on page 41

Columbian Carbon Co. Building Unit in Italy

Columbian Carbon Company is building a $6 million plant in Italy, its first step in entering the European Common Market area. The plant will produce 60 million pounds of carbon black annually.

Construction of the new plant, which will cost $6 million, will begin immediately in northern Italy, near Milan. The unit is expected to be in full operation by early 1961.

It will operate under the company name of Columbian Carbon Europa.

The firm has additional plans for the future, and is now studying other likely

—Continued on page 35

Hooker Expansion Plans Are Set for Next 6 Months

The Durex Plastics Division of Hooker Chemical Corporation has begun expansion of its formaldehyde installation at North Tonawanda, N.Y. The move is part of a growth program drawn up by Hooker for the next six months.

According to the firm, the formaldehyde unit expansion will be completed by the end of the year and will up output by

—Continued on page 63

Dixon Sells Fertilizer Unit To Baltimore Manufacturer

Dixon Chemical Industries, Inc., Bloomfield, N. J., has sold the inventories and tradenames of its I. P. Thomas Division to Baugh & Sons Company, Baltimore, Md. Land and manufacturing facilities of the Paulsboro, N. J., unit were not included in the sale.

Dixon bought the Thomas unit from Pennsalt Chemicals Corporation early last year for about $1.5 million. A spokesman for Dixon said last week that his firm found the manufacture of fertilizer incompatible with its plans for expansion into the heavy and fine chemicals field.

In connection with the sale, Dixon has entered into a contract with Baugh for the latter to buy "substantial quantities" of sulfuric acid for an extended period of years. Dixon at present is building a wet purification sulfuric acid unit at the Thomas location.

Lederle Won't Shy At Curbs on Vaccine

American Cyanamid Company's Lederle Laboratories Division is forging ahead with production plans for its one-shot oral polio vaccine. The firm announced its program last week despite earlier word from Washington voicing reservations on just how ready live-virus vaccine is for commercial production.

In its public statement, Lederle said it is beginning work this week on a $1 million production and testing facility that will enable it to produce enough of its vaccine each year to immunize some 40 million people. At the same time, Lederle noted that it had not yet made application to the government for a production license.

Earlier in the week, Surgeon General Leroy E. Burney, while conceding the

—Continued on page 53

Truesdale Chemical Set Up

Truesdale Chemical Company has been established by P. E. Truesdale, formerly with McKesson & Robbins, Inc., New York. The company is distributing industrial chemicals in the New York and northern New Jersey areas. Address of the newly-founded firm is 140 East 40th street, New York.

Ethylene Capacity Boost Is Scheduled by Phillips

Phillips Chemical Company, a wholly-owned subsidiary of Phillips Petroleum Company, Bartlesville, Okla., will expand ethylene capacity at its Sweeny, Tex., plant by 75 million pounds a year to meet increasing ethylene sales requirements.

The expansion will raise capacity to 255 million pounds when completed near the end of 1959. The entire plant is built so that additional expansion can be made readily.

Business Weather Brisk, Maybe Turning Summery

Business remains brisk. However, there are some indications of a normal seasonal summer leveling. Our members say production is still very good, but only 46 percent report improvement, as compared to 60 percent so reporting last month.

A small minority of 6 percent state their production has dropped in the last thirty days. New orders contine to be received in satisfactory volume, with 42 percent telling of increases, 48 percent no change, and 10 percent reductions.

Commodity prices are still inching higher, but the movement is selective. Where the supply is abundant and the demand weak, certain items such as copper and fuel oil have dropped in price despite the general upward trend.

Most of our members remain "inventory conscious." There is great reluctance to add to stocks on hand, except to protect against special situations as in the case of steel. Practically none is increasing inventory investment to hedge against higher prices. Very few are willing to extend their purchase commitments further into the future.

Employment has improved again, although college and high school students are having difficulty in finding summer jobs.

Our special question this month sought to determine the attitude of purchasing executives toward buying foreign materials and equipment. There is almost no argument that the purchase of foreign raw materials which are not readily avail-

—Continued on page 36

This report was prepared by the business survey committee of the National Association of Purchasing Agents.

Lead, Zinc Controls Ineffective; 'More Remedial Action' Is Seen

Government controls over lead and zinc imports are not working out as planned by the administration. Secretary of the Interior Fred A. Seaton sadly reports that while the curbs have been of some help in easing the financial plight of the domestic producers, there are indications that "more remedial action may be needed." So right now an inter-agency committee is looking into the matter to see what can be done. Mr. Seaton disclosed the possibilities of tighter restrictions being imposed on these metals last week as the house interior committee heard testimony from members of both industries.

The lead and zinc men lamented to the committee that they are still facing "hard times" because the import quotas are too liberal and are failing to protect the industry against a flood of imports.

Considering Extension of Quotas

The secretary told a news conference that he was considering extending the import quotas to finished lead and zinc products, among other ways of bringing relief to the domestic industry, but would give no further details of what might be in sight for the future.

A number of bills have been introduced in congress this year for helping domestic metal miners, including a bill by the lead and zinc bloc for imposing tariffs that would support prices at 15.5 cents a pound for lead and 13.5 cents a pound for zinc, while stabilizing lead production at 350,000 tons and zinc at 550,000 tons.

Higher tariffs which would support the prices at the levels provided for in the bill were urged before the house committee by Andrew Fletcher, president of St. Joseph Lead Company, and R. L. McCann, president of the New Jersey Zinc Company. Herman Clott, representing labor, added his support for remedial legislation.

Mr. McCann told the committee he had been forced to close three mines and is operating others on a month-to-month basis because of competition from foreign zinc.

He added that a tariff increase is the best means of raising zinc prices.

He argued that a quota on pig lead is

—Continued on page 63

Fatty Acid Output, Sales Up In May

Production of fatty acids totaled 43 million pounds in May, according to the monthly report of the Fatty Acid Producers' Council, a Division of the Association of American Soap & Glycerine Producers.

In April, output had been 42.8 million pounds and some 30.7 million pounds had been produced in May, 1958.

Disposition of fatty acids in May was 43.1 million pounds—a 26 percent increase over last year for the same products. A total of 41.4 million pounds was the figure for May of last year.

Coaltar '58 Imports Increased 20 Percent

Imports of coaltar chemicals last year advanced about 20 percent, though the value remained unchanged from 1957. According to the annual report released by the Tariff Commission last week, some 14.4 million pounds of coaltar chemicals came into the country last year, as compared to the 11.9 million pounds brought in the year before.

However, import value last year—$10.7 million—was the same as that of 1957.

Most of the coaltar chemicals imported last year were declared competitive (duty based on American selling price), the agency's report says. Almost half of total imports in 1958 came from West Germany (6.9 million pounds last year as compared to 4.9 million in 1957).

Imports from Italy in 1958 amounted

—Continued on page 49

Pfizer Man Sworn In To Gov't Chemical Post

Thomas V. Cartolano, assistant to the general manager of the chemical division of Charles Pfizer & Co., Brooklyn, N.Y., was sworn-in July 2 as administrative advisor to the Chemical and Rubber Division of the Department of Commerce.

He succeeds Martin H. Fritch, who is returning to Koppers Company, Pittsburgh, Pa., to become manager of chemical sales for the tar products division. Before going to Washington last January, Mr. Fritch was manager of markets and development for the tar products division.

Fluoroalcohol Prices Are Reduced by duPont

Prices of five E. I. duPont de Nemours & Co. fluoroalcohols, first offered a year ago at development prices ranging from $30 to $40 per pound, have been reduced to $10 per pound.

Identified as "C3, C5, C7, C9, and C11" fluoroalcohols, the compounds contain from 57.5 to 71.4 percent fluorine.

The price reductions, according to the Wilmington, Del., firm, are due to improved manufacturing processes in scaling up from laboratory to small scale commercial production, an improved market pattern, and a desire to broaden the market.

Mixtures of the "C3" and "C5" fluoroalcohols also are available at $7.50 per pound for 1:1 mixtures and $8.50 per pound for those containing approximately one part of "C3" to two parts, by weight, of "C5" fluoroalcohol.

The Week's Price Changes

Boric Acid, n-Octyl Alcohol, Styrene Monomer Advanced. Bergamot Oil, Coconut, Corn, Soybean Oils Reduced.

Prices Advanced

Borax, anhyd., $4.50 per ton (p. 32).
Gran., decahydrate, $2.50 per ton.
Fran., pentahydrate, $1.50 per ton.
Boric acid, crystalline & gran., $3.50 per ton (p. 32).
n-Butyl alcohol, ½c. per lb. (p. 43).
Citronella oil, Java-type, 2½c. per lb. (p. 51).
Cottonseed meal, $3 per ton (p. 56).
n-Decyl alcohol, 2c. per lb. (p. 43).
Fishmeal, $2 per ton (p. 38).
Fishscrap, $1 per ton (p. 38).
Formaldehyde, ¼c. per lb. (p. 43).
Isobutyl alcohol, ½c. per lb. (p. 43).
Linseed meal, 50c. per ton (p. 56).
n-Octyl alcohol, 2c. per lb. (p. 43).
Soybean meal, $1.50 per ton (p. 56).
Styrene monomer, tech., .03c. per lb. (p. 40).

Prices Reduced

Bergamot oil, Ital., nat., 15c. per lb. (p. 51).
Cooca butter, 1c. per lb. (p. 56).
Coconut oil, crude, ¾c. per lb. (p. 56).
Copra, $12.50 per ton (p. 56).
Corn oil, crude, ½c. per lb. (p. 56).
Refd., ¼c. per lb.
Castor oil, Brazilian, ½c. per lb. (p. 56).
Lard, cash, 1/5c. per lb. (p. 56).
Greases, ½c. per lb. (p. 56)).
Soybean oil, crude, ¼c. per lb. (p. 56).
Refd., ½c. per lb.
Tallow, ½c. per lb. (p. 56).
Tin, straits metal, ¾c. per lb. (p. 32).
Tin satls, ½c. to ⅝c. per lb. (p. 32).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:

(100=1949 average)

July 3, 1959	June 26, 1959	July 3, 1958
110.58	110.53	109.99

Oils, Wheat Yield New Things

Those hard-working Department of Agriculture researchers, burning the midnight oil again, have come up with two new chemical developments stemming from the field of agriculture: film-forming materials made from soybean and linseed oils that adhere to metals, and wheat flour modified into products having potential uses as thickening agents, adhesives, and coatings and sizes for paper and textile manufacture.

In the first development, the USDA scientists describe the films as flexible, withstanding heat, and able to resist abrasion, alkalis, acids, and such solvents as alcohols, mineral oil and benzene—all properties that are needed in film coatings for metals.

In the second experiment, the government agency says, it investigated two of a series of wheat flour modifications and found they readily mixed with water for forming a free-flowing paste—properties desirable for such industrial processes as the continuous machine-coating of paper.

Properties in the film-forming process, it was noted, suggest use for soybean and linseed oil films as adhesives and as concrete and masonry paints, according to staffers of the Agricultural Research Service, currently at work evaluating agricultural commodities as sources of metal coatings.

Research that led to the oil derivatives, called vinyl ethers, was done at the north-

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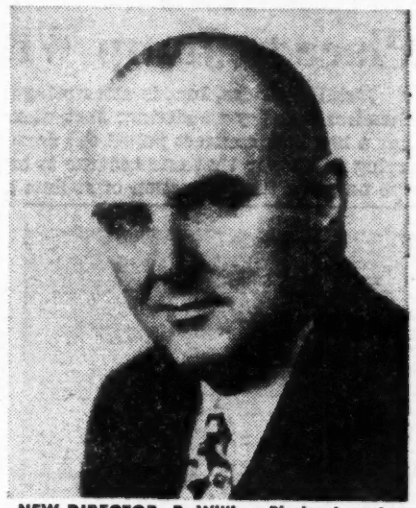

NEW DIRECTOR: R. William Bjork, elected to the board of Norda Essential Oil & Chemical Company, New York, and manager of the company's division of customer relations. He was most recently with L. Sonnebern Sons, Inc.

Food Machinery to Build Plant for Chemical Corps

Food Machinery & Chemical Corporation has been awarded a $13,235,000 contract by the Department of the Army for the design, construction and test operations of a Chemical Corps production facility near Newport, Ind. What the plant will make was not divulged, it being regarded as classified information.

The Lummus Corporation has been selected as principal sub-contractor. Primary responsibility for the general direction of this project will be with W. N. Williams, FMC vice-president. The project involves both the chemical divisions and the machinery divisions.

Unexcelled Gets Aylward

Unexcelled Chemical Corporation, New York, has acquired Aylward Chemical Company, a producer of liquid chemical fertilizers. According to Unexcelled, the acquisition involved an issuance of its common stock. Although the amount was not disclosed, trade sources suggest between $450,000 and $500,000 was involved in the transaction. Aylward will be operated as the Aylco Division of the firm.

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MOVES UP: H. G. Hinck, elevated to senior vice-president of Wallerstein Company, a division of Baxter Laboratories, Inc. He will continue his old duties as secretary-treasurer.

Permutit Unit Ready For 5-Year Expansion

Permutit Division of Pfaudler Permutit, Inc., New York, is going to spend the next five years filling out its chemical sales department. The long-range program is attributed to a study showing big demand potential for improved technology to develop chemicals for the water treatment field and other industrial applications.

Permutit set off its program with the appointment of Morris Wolfe, a veteran in management, manufacturing and sales, as manager of the chemical sales department.

Highlights of the program, the division says, will be: extension of distribution to cover all of the US and Canada, a substantial increase in the field sales force, entry into additional types of markets, a broader line of chemical specialty products, and a comprehensive advertising and public relations program on the services and products offered by the department.

The potential in the water treatment field is derived, the division pointed out, from the growth of new products and processes, pollution of surface and ground waters, worldwide diminution of freshwater supplies, and the multiple uses of water in general.

Treatment of liquids is one of industry's fastest-growing technologies, Permutit claims. However, relatively little is heard about it because it is a highly-specialized, behind-the-scenes operation.

Tennessee Eastman Plans For Hydrogen Installation

A new high-purity hydrogen plant at Kingsport, Tenn., is being planned by Tennesse Eastman Company, a division of Eastman Kodak Company.

Engineered and equipped by Girdler Construction Division of Chemetron Corporation, Louisville, Ky., the new facility will have a capacity of 900,000 cubic feet per day of hydrogen for use in production of "Kodel" polyester fiber.

The new plant is scheduled for completion in late 1959 or early 1960. It will use the steam-hydrocarbon process for production of hydrogen from natural gas, starting with a hydrogen reformer furnace that converts natural gas to hydrogen, carbon monoxide, and carbon dioxide. This is followed by a "purification train" that includes carbon monoxide conversion, Girbotol-process carbon dioxide removal, and a methanator unit.

Paint Makers Set With Plans To Shift From Roads to Rails If ICC Okays Freight Cuts

Eastern paint manufacturers are ready to go ahead with plans for shifting a good part of their transportation of paints and related products from the highways to the rails in order to take advantage of the greatly reduced freight rates being proposed by the railroads. The move depends, however, on how the Interstate Commerce Commission views the rate cuts. The matter is now being studied by the commission, upon conclusion of final arguments last week on the protests of the motor carriers that the rates would be unlawful.

The railroads are proposing reductions in rates for the "Official Territory" constituting all of New England and part of the east, ranging from 2 cents to 52 cents per 100 pounds lower than existing truck rates, depending on distances and quantities involved.

First of a Series

The cuts would be the first of a series which the rail carriers are planning for recapturing lost highway traffic by taking advantage of the new transportation law and its more liberal freight-rate-making provisions.

Shippers probably will know by November 1 whether the lower rates will be put into effect. Due to become operative on July 1, they were suspended voluntarily at the last minute for 120 days at the request of the commission while it studied the protests of the motor carriers. They were originally designed to go into effect last September, but held up while the ICC probed the legality of the rates.

According to Jervis Langdon, vice-president and general counsel for the Baltimore & Ohio Railroad and counsel for the eastern carriers proposing the rate reductions, the railroads have been promised between 30 and 40 percent of the paint and related products traffic of the east if the reductions become effective. This compares with only 7.6 percent of such traffic handled by the railroads now.

Mr. Langdon said that in terms of money, the increase in paint traffic for the rails will mean increased revenues of between $644,000 and $1 million. While this is important, he added, it is not the major matter of consideration.

The important thing is that the railroads hope by the paint rate case to establish a new rule of rate making to be applied to a large number of other products now being surveyed. He did not disclose them, however.

The new rate rule, he explained, would be one of establishing rates on the basis

—Continued on page 52

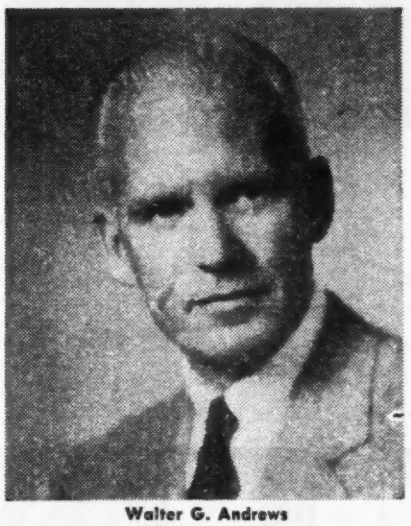
American Lignite Making Wax Through New Process

American Lignite Products Company, Ione, Calif., is turning out a variety of ultra-refined and decolorized grades of "Alpco" wax by means of a new direct fractionation process. A special crude grade of montan wax is used for the feed material prior to fractionation.

American Lignite is offering two new standardized grades of wax — "Alpco" waxes 431 and 434. Both products are reportedly capable of replacing carnauba and Hoechst waxes as a direct substitution in all types of commercial solvent wax pastes commonly used for cars, floors, furniture and shoes.

Butyllithium In Production

Lithium Corporation of America has begun commercial production of n-butyllithium at its Minneapolis, Minn., plant. The chemical, used in the manufacture of synthetic rubber polymers such as polyisoprene and polybutadiene, and employed as a pharmaceutical intermediate, will have an initial output of more than 1,000 pounds per month.



Walter G. Andrews

ADM Revises Setup; Marketing Gets Play

A new form of corporate organization—one that puts the stress on marketing—has been placed in operation by Archer-Daniels-Midland Company, Minneapolis, Minn. Serving as the foundation for the new setup are four major marketing groups, created out of the twelve old operating divisions and two operating departments.

Within the four groups—agricultural products, chemical products, specialty products and international—more than 1,000 ADM standard products, along with the company's foreign operations, will be grouped according to the markets they serve.

Three executive vice-presidents have been named to head the domestic groups. They are: Erwin A. Olson, former administrative vice-president, who has been placed in charge of the agricultural products group; Walter G. Andrews (pictured above) a former vice president and manager of the resin and plastics division, who has been named to head the chemi-

—Continued on page 34

Chlorine-Caustic Facility Is Expanded by Diamond

Diamond Alkali Company, Cleveland, Ohio, has completed expansion of its 20 percent chlorine-caustic soda plant at Deer Park, Tex.

The start-up of the new unit, Diamond says, is timely in relation to gradually improved demand for chlorine and caustic soda this year. The initial rate of the new facility will be in excess of 50 percent of capacity, it was added.

The new facility brings the aggregate capacity of the company's entire Deer Park Works to a nominal 750 tons per day of chlorine with a concurrent capacity of about 825 tons of caustic soda and 7,500,000 cubic feet of high purity hydrogen.

Antitrust Measure Gets Green Light From Senate Unit

Chemical men will probably get another barrier thrown up in their faces by the government: the senate judiciary committee has voted to give a boost to the powers of the Department of Justice in its preparation of antitrust cases.

The committee last week okayed a bill that will compel corporations to give the Attorney General's staff documentary evidence for use in certain investigations.

The pre-trial subpoena authority has been sought by the department for a number of years, but this is the first time it has moved so far in congress.

Introduced by Kefauver

The legislation—expected to be scheduled for floor action later this session—was introduced by Sen. Estes Kefauver of Tennessee. Washington backing for some sort of bill along this line appears to be pretty general. The administration has come out for a similar measure sponsored by Sen. Alexander Wiley of Wisconsin.

According to the Kefauver measure, all pertinent and relevant documents must be surrendered upon demand to the department, except material which would be privileged from disclosure before a grand jury or other court proceeding.

Two changes were made in the legislation by the committee before voting its approval. One amendment makes it clear that Justice department demands may be addressed only to business, and not to individuals; the other places a limit on the extent to which the material given to the department may be passed on to the congressional judiciary committees.

This latter amendment gives the department discretionary authority to withhold the material from committees. As proposed originally, it was compulsory for the department to turn over the data to the congressional units.

The Federal Trade Commission already has authority to compel companies to produce documentary evidence in cases it is investigating to determine whether there are unfair trade practices or illegal methods of competition.

The Kefauver bill will give the same authority to the attorney general in the

—Continued on page 42

Color Lakes in Food Will Be Okay July 12

Formal notice was given last week by the Food and Drug Administration that its order permitting the use of color lakes in foods in place of the certified coaltar colors will go into effect Sunday (July 12). The proposed change in the color certification regulations was approved tentatively last May and no objections were received.

The order will ease the problem somewhat for industry consumers of the coaltar yellows Nos. 3 and 4 that were withdrawn from certification earlier in May. When yellows 3 and 4, along with Nos. 1 and 2, were removed from the certification list there were no more oil soluble coaltar colors allowable in foods.

By depositing the permitted water soluble colors on a harmless diluent containing aluminum or calcium the colors are converted to so-called lakes which can be substituted for oil soluble colors for many uses.

Colgate Cooks Up Deal To Get Sterno Holdings

Colgate - Palmolive Corporation, the big New York soap maker, has cooked up (on a Sterno stove, of course) a deal by which it will acquire Sterno Corporation, New York, and its subsidiaries.

Under terms of the transaction, Colgate-Palmolive will acquire all outstanding shares of Sterno in exchange for Colgate common stock.

Sterno markets the nationally famous fuel "Sterno Canned Heat" and an extensive line of stoves, heaters, food warmers, chafing dishes and other appliances utilizing this fuel. A charcoal lighter, metal polish and other items were recently added to the line.

Colombian Chemicals Small But the Future Looks Big

The basic chemical industry in Colombia is small but its future plans are big. That's what the Business and Defense Services Administration says in another of its industry reports, this one analyzing things chemical and how they are expected to shape up in the Latin American country.

The chemical industry in Colombia centers around recently increased production of alkalis from the Betania plant; byproducts of benzol, resins and fertilizer materials from the cokeovens and furnaces of the Paz del Rio steel mill, and production of sulfuric acid from several small plants.

But here, says the report, is what the future holds in store along the way of new production: nylon thread (from imported flake nylon); coumarone indene (filler in industrial products, notably rubber tile manufacture); creosote; acetic acid; resins, and calcium carbide from the manufacture of acetylene.

Ferrosilicon and ferromanganese alloys will probably be made with the same equipment used for calcium carbide, BDSA goes on to say.

Industry in Colombia thinks that the rapid increase in output of chemical products will continue, especially if the ammonia plant of Industria Colombiana de Fertilizantes, S.A., is completed.

Although many new chemical producers or processors, it is pointed out, must for an indefinite period count heavily on imported rather than domestic materials, the country can offer other new firms certain basic chemicals from the alkali plant, a number of cokeovens, several sulfuric acid plants, a half-completed ammonia

—Continued on page 37

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ZINC BACITRACIN

Penick makes it a matter of choice . . . your choice!

Both items are stable. Both are palatable. And both display the same high level of activity against a wide spectrum of Gram-positive organisms.

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Picric Plant on the Block

The Army's big picric acid plant just outside Little Rock, Ark., is going on the block.

General Services Administration reports that the Army has attached a "surplus" label to the plant, known as the Maumelle Ordnance Works, and that it will be put up for public sale early in the fall.

The 5,213-acre installation, built in the early '40s at a cost of more than $14 million, manufactured large quantities of picric acid and ammonium picrate for the Army.

The plant was placed in stand-by condition following the war and was reported to GSA as excess property by the Department of the Army last year.

The sealed bid sale, scheduled for September 29, will be handled by GSA's region seven office at Dallas, Tex. A descriptive brochure on the property as well as bidding instructions may be obtained from the Business Service Center, General Services Administration, 1114 Commerce street, Dallas.

Maumelle Ordnance Works is located 17 miles northwest of Little Rock, Pulaski County, Ark., and was operated from the time of its completion in 1942 to August, 1945. At one time the plant employed more than 2,000 persons.

In addition to actual manufacturing facilities, the area to be included in the single-unit sale boasts its own standard gauge rail line and a roadway network totaling twenty miles.

Some fifty buildings occupy the heavily wooded site area. They include acid production plants and administration buildings as well as concrete bunkers used to store high explosives before shipment to the armed forces.

Water distribution systems, a large steam generating plant, complete fire fighting equipment and road construction machinery are typical items that will be sold with the plant.

US Money Provided Overseas To Build Up Socialized Industry Is 'Absurdity,' Says Pfizer V.P.

"The height of absurdity . . . incredible . . ." is what a top chemical executive calls the use of US funds to build socialized industry in newly-developed countries. The executive, John J. Powers, jr., senior vice-president of Chas. Pfizer & Co., and president of Pfizer International, made his feelings known at a meeting of the National Conference on the US Economy and International Relations, held in Washington, D. C., last week.

Mr. Powers said open-end, non-specific government-to-government grants are "a direct encouragement toward the building of industry in the public sector."

Pushing Them Is 'Incredible'

Pointing out that these countries are presently forming their patterns of government, he warned that "for the American or other western taxpayer, who believes deeply in the idea of free enterprise, to push them along the path of state ownership and control of industry by providing funds for the purpose is incredible."

He conceded that it is of the utmost importance to close the gap in living conditions between the more prosperous countries and the poorer countries of Asia, Africa and the Western Hemisphere, but saw the answer in a long-term economic program, "even if it will take generations."

However, he warned that such a program must be "practical on the part of all concerned."

Some countries, Mr. Powers pointed out, missed the boat in the first industrial revolution, and "industrialization has taken on the dimensions of a national emergency . . . under these circumstances of haste and emergency these nations are all too frequently building and operating state-owned factories, engaging in state trading and actually discouraging the private investor."

Mr. Powers warned that such a course of action spread the countries' resources desperately thin, and called it "infinitely more practical" to encourage private investment, from within the country or without.

Pointing out that the policies of the American government "have all too often

—*Continued on page 63*

RESEARCH HEAD: Dr. D. K. Smith, promoted to manager of the eastern research division of Rayonier, Inc., at Whippany, N. J.

Gen'l Chemical Learns All About 'Thick, Murky' Reporting of News

General Chemical Division of Allied Chemical Corporation learned all about the "thick, murky clouds" of news reporting a fortnight ago when a minor operational difficulty at a plant in Denver, Col., caused an escape of gas into the atmosphere. The reports, sent across the nation by wire and radio, had company officials in New York sitting back in wonderment as they heard that most of Denver was gagging under a "thick, murky cloud of sulfur dioxide."

The best way to tell the story, however, is to report the facts, as released by General Chemical, and then quote the press reports.

Here is what General Chemical had to say:

"At the General Chemical Division plant in Denver at about 10:15 p.m. Friday night a pump in a tower which absorbs sulfur trioxide gas kicked off for ten minutes. There was an escape of gas to the atmosphere, which was dispersed by a wind from the northeast. Although the gas is somewhat irritating, it is relatively non-toxic in the quantity and concentration emitted.

"The plant was shut down at about 10:25 p.m., the pump was repaired, and operations resumed at 2 a.m. No reports of injuries or illness in the plant or to neigh-

—*Continued on page 55*

IN SUPERVISORY POST: Alfred N. Henschel, appointed supervisor of the textile auxiliary application laboratories of Metro-Atlantic, Inc., Centerdale, R. I.

Monsanto Unit Expanded

Monsanto Chemical Company, St. Louis, Mo., has completed expansion of silica production facilities at its Everett, Mass., plant. Operated by the company's inorganic chemicals division, the silica plant produces the division's "Sytons" (colloidal dispersions of silica in water) and "Santocels" (silica aerogels).

McKesson & Robbins Has All Barada & Page's Stock

McKesson & Robbins, Inc., New York, has completed an exchange of shares of its common stock for all the outstanding stock of Barada & Page, Inc. The exchange followed a recent agreement between the companies (OPD, 4/6/59).

Current plans, according to McKesson & Robbins, call for no change in the operations of Barada & Page, which, as a subsidiary, will continue to function with existing personnel, maintaining its executive offices in Kansas City, Mo.

DuPont Slashes Prices On Two of Its Antifreezes

E. I. duPont de Nemours & Co., under stiffening competition from drug stores, supermarkets and discount houses, has cut the price of its antifreezes.

The Wilmington, Del., firm announced reductions for its "Zerex" and "Zerone" last week because of increasing competition from the "non-service station" outlets which sell antifreeze on a do-it-yourself basis.

DuPont's new price minimum will be $2.39 per gallon for "Zerex" and $1.25 per gallon for "Zerone." The new prices do not include the cost of installation.

The old price, which included the cost of installation by the service station, was $3.25 for "Zerex" and $1.60 for "Zerone." The company said that non-service station outlets for antifreeze have been eating up more and more of the market and last year accounted for 45 percent of antifreeze sales as compared with only 5 percent in 1948.

Atom-Blasted Shale To Be Meeting Topic

The Bureau of Mines wants to set up a meeting of chemical and petroleum men to discuss the government's idea of trying out nuclear explosives in underground oil-shale deposits in the west.

The meeting—time and place have not yet been determined—will be the second arranged by the bureau and the Atomic Energy Commission as part of AEC's "Plowshare Program."

According to the bureau, some twenty-one major petroleum and chemical firms have answered an opinion poll on the nuclear project. The project is to be followed by an experiment in which the shale broken by the explosion will be retorted to oil in situ.

All but two of the companies answered positively, and a number expressed will-

—*Continued on page 42*

Hughes, Seiler Concerns Consolidate Their Interests

Hughes Chemical Supply Company, and Seiler Chemicals, both of Baltimore, Md., have joined forces. The consolidation became effective last week.

Officers of the new firm, Seiler-Hughes Chemicals, Inc., are: president, V. J. Hughes, jr.; vice-president, Carl R. Seiler; secretary, V. J. Hughes, sr., and treasurer, Carl W. Seiler.

Association Meetings

American Association of Textile Chemists & Colorists, annual meeting, Shoreham hotel, Washington, D. C., October 8-10.

American Chemical Society, national meeting, Atlantic City, N. J., September 13-18.

American Coke & Coal Chemicals Institute, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., October 19-20.

American Institute of Chemical Engineers, St. Paul, Minn., September 27-30.

American Oil Chemists Society, fall meeting, Statler-Hilton hotel, Los Angeles, September 28-30.

American Pesticide Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 16-17.

American Pharmaceutical Association, annual meeting, Netherlands Hilton hotel, Cincinnati, Ohio, August 16-23.

Association of American Feed Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 14-15.

Association of Consulting Chemists & Chemical Engineers, annual symposium, Shelburne hotel, New York, October 27.

Association of Official Agricultural Chemists, annual meeting, Shoreham hotel, Washington, D. C., October 12-14.

Chemical Market Research Association, resort meeting, Williamsburg Lodge and Inn, Williamsburgh, Va., September 21-22.

Drug, Chemical & Allied Trades section of the New York Board of Trade, annual meeting, Sagamore hotel, Bolton Landing, Lake George, N. Y., September 17-20.

Electrochemical Society, Deshler-Hilton hotel, Columbus, Ohio, October 18-22.

Federal Wholesale Druggists Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., September 19-23.

Federation of Paint & Varnish Production Clubs, annual convention, Convention Hall, Atlantic City, N. J., October 22-24.

Gordon Research Conferences: "Polymers," Colby Junior College, New London, N. H.; "Magnetic Resonance," New Hampton School, New Hampton, N. H.; "Solid State Studies in Ceramics," Kimball Union Academy, Meriden, N. H., July 6-10.

Kentucky Fertilizer Conference, annual meeting, Univ. of Kentucky, Lexington, July 29.

National Agricultural Chemicals Association, annual meeting, Sheraton Lick hotel, French Lick, Ind., October 21-23.

National Association of Retail Druggists, annual convention, St. Louis, Mo., September 20-24.

National Paint, Varnish & Lacquer Association, annual convention, Chalfonte-Haddon Hall, Atlantic City, N. J., October 19-21.

Paint Industries' Show, sponsored by Federation of Paint and Varnish Production Clubs, Convention Hall, Atlantic City, N. J., October 20-24.

Parenteral Association, annual meeting, Statler hotel, New York, October 14-16.

Society of Chemical Industry, annual meeting, Glasgow, Scotland, July 6-11.

Society of the Plastics Industry, midwest section conference, French Lick Sheraton hotel, French Lick, Ind., September 10-11; New England section conference, Wentworth-by-the-Sea, Portsmouth, N. H., October 1-2.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Roosevelt hotel, New York, September 15.

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TO: Purchasing Department

We approve vitamin A 'Roche' for all uses.

The quality is very high. All types of the

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Both liquid and dry forms of

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Sodium sesquisilicate, hydrated, bgs.,
c.l., works ..... 100 lbs. 4.60 • —
l.c.l., works ..... 100 lbs. 4.95 • 5.35
dms., c.l., works ..... 100 lbs 5.00 • —
l.c.l., works ..... 100 lbs. 5.35 • 5.75

Sales zones are: (1) All States E. of Miss. R. and N. of south boun. of Ky.

Stannous chloride, anhyd., dms.,
works lb. .805 • 1.074
Hydrous (crystals), dms., works, works lb. .76 • .77
Sulfate, dms., works ..... lb. .924 • .944
Starch, corn, pearl

c.l., works ..... ton.12.40 • —
l.c.l., works ..... ton.36.00 • —
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works lb. .06 • —
Sparteine sulfate, cns ..... oz. .80 • .85
Spearmint leaves, dom. bls ..... lb. .75 • —
imp., bls ..... lb. 1.25 • —
Spruce, extract, liq., reg. tanks,
works lb. .01¾ • —
powd., super. bgs., c.l., works,
lb. .05¼ • —
l.c.l., works ..... lb. .05½ • —
Squill, white, bls ..... lb. .17 • .19
powd., fibs., bxs ..... lb. .18 • .21
St. John's bread, edible, bls lb. .13 • .15
Stannic chloride, anhyd., dms.,
works lb. .752 • .762
Oxide, dms., dwd. E ..... lb. .93½ • .94½

ground, bgs., ex-dock ... ton.122.00 • —
Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, c.l.,
Balto., unit-ton. .88 • .91
Carteret, N. J. unit-ton. .88 • .91
triple, 48% or more, a.p.a., pulv., bulk, c.l., East Tampa, Fla.,
unit-ton. .98 • —

T

2,4,5-T, dms., c.l., works, frt. equald.
lb. 1.25 • —
l.c.l., same basis ..... lb. 1.30 • 2.30
Isopropyl, ester, dms., c.l., works, frt. equald lb. 1.30 • —
l.c.l., works ..... lb. 1.35 • —

solid, dms., frt. alld ..... lb. .70 • .80
m-Toluidine, dms., c.l., works, frt.
alld. lb. .61 • —
l.c.l., same basis ..... lb. .79 • —
tanks, same basis ..... lb. .80 • —
o-Toluidine, dms., c.l., works, frt.
alld. lb. .78 • —
l.c.l., same basis ..... lb. .23 • —
tanks, same basis ..... lb. .24 • —
p-Toluidine, flake, dms., frt. alld. lb. .22 • —
solid, dms., frt. alld. ..... lb. .64 • —
Toluol, coaltar, indust. or nitration, tanks, works:—
Bethlehem, Pa. ..... gal. .60 • .61
Birmingham dist. ..... gal. .34 • —
Chicago dist. ..... gal. .32 • —
Cleveland dist. ..... gal. .35 • —
Geneva, Utah ..... gal. .32 • —
Johnstown, Pa. ..... gal. .26 • —
Lackawanna, N. Y. ..... gal. .32 • —

V

Vitamin A acetate, syn., cryst., beads, 500,000 A units per gram ..gram. .07¼ • —
dry, 500,000 units per gram, kilo lots ..kilo.67.50 • —
dry, 325,000 units per gram, same basis ..kilo.43.88 • —
dry, 250,000 units per gram, same basis ..kilo.33.75 • —
Dry vitamin A acetate in less than kilo lots, $2.50 per kilo higher in all potencies.
Vitamin A, liq. in oil, 1,000,000 A units per gram ..1,000,000 units. .10 • —
Vitamin A, palmitate, liq. 1,000,000-1,500,000 A units per gram 1,000,000 units. .10 • —
Liq. in oil, 1,000,000 A units per gram ..1,000,000 units. .10 • —

*Roche—Reg. U. S. Pat. Off.

CHEMICALS AND RELATED MATERIALS

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Current MARKET Quotations

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, July 3 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Abies siberica oil, cns ..... lb. 2.45 - 3.00
Acacia (see Arabic gum).
Acenaphthene, below 92.5 C. m.p., dms., works lb. .40 - —
Above 92.5 C. m.p., bbls., dms., lb. .41 - .50
Acetaldehyde, 99% dms., c.l., works. lb. .12 - —
dms., t.c.l., works ..... lb. .13½- —
tanks, works ..... lb. .10 - —
Acetaldol (see Aldol)
Acetanilide, tech., flaked, bbls., bgs. c.l., frt. alld lb. .32½- —
bbls., bgs., ton lots, frt. alld. lb. .33½- —
bbls., bgs., smaller lots, frt. alld lb. .36½- —
USP, bbls., 225-lb dms any quantity lb. .79 - —
100-lb dms., any quantity lb. .81 - —
Acetic acid, coml. or redist., 28%, bbls 100 lbs. 4.80 - —
56%, bbls. ..... 100 lbs. 8.25 - —
70%, bbls. ..... 100 lbs. 9.95 - —
80%, bbls. ..... 100 lbs. 10.45 - —
Acetic acid, glacial, syn., CP, dms., dlvd 100 lbs. 22.00 -23.00
tech., dms., c.l., dlvd. ... 100 lbs. 13.75 - —
dms., t.c.l., dlvd. ..... 100 lbs. 14.25 - —
tanks, dlvd ..... 100 lbs. 10.00 - —
USP, cbys., dlvd ..... 100 lbs. 31.00 -32.00
Acetic anhydride, aluminum ret. dms., c.l., dlvd. E lb. .16½- —
aluminum ret. dms., t.c.l., dlvd. E. lb. .18 - —
tanks, dlvd. E. ..... lb. .14 - —
Acetoacetanilide, fib. dms., c.l., dlvd lb. .80 - —
fib. dms., t.c.l., dlvd. ..... lb. .81 - —
Acetoacet-o-chloroanilide, fib. dms., c.l., dlvd lb. 1.35 - —
fib. dms., t.c.l., dlvd. ..... lb. 1.36 - —
Acetoacet-o-toluidide fib. dms., c.l., dlvd lb. .82 - —
fib. dms., t.c.l. dlvd. ..... lb. .83 - —
Acetone, CP, dms., c.l., dlvd. .. lb. .11 - —
dms., t.c.l., dlvd ..... lb. .12½- —
tanks, dlvd. ..... lb. .08½- —
Acetonitrile, dms., c.l., works ... lb. .45 - —
dms., t.c.l., works ..... lb. .45¾- —
tanks, works ..... lb. .43 - —
Acetophenetidin, USP, 200-lb. dm., 1,000 lbs., frt. alld lb. 1.22 - —
100-lb. dm., 1,000 lbs., frt. alld. lb. 1.24 - —
Acetophenone, cns., dms. ..... lb. .42 - 1.30
Tech., dms., c.l., works ..... lb. .37 - —
dms., t.c.l., works ..... lb. .37¾- —
tanks, works ..... lb. .35 - —
N-Acetyl-p-aminophenol, 1,000-lb. lots, frt. adjusted lb. 1.45 - —
smaller lots, dms., same basis lb. 1.55 - 1.63
Acetylene black, imp., bgs., c.l., duty and freight extra lb. .19 - —
cs., t.c.l., ex whse. ..... lb. .24½- .30
Acetylsalicylic acid, USP, special, makers, primary distrib., bbls., 1,000-lb. lots, point of shipt lb. .63½- —
USP, standard, fine, cryst. gran., (20-40 mesh) powd., (80 mesh), 250-lb. bbls., c.l., t.l., same basis lb. .55¼- —
Freight equald, shipt. identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.
Acetyltributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .35½- —
non-ret. dms., t.c.l., frt alld. E. of Denver lb. .36½- —
tanks, frt. alld. E. of Denver. lb. .33 - —
Acetyltriethyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .39½- —
non-ret. dms., t.c.l., frt. alld. E. of Denver lb. .40½- —
tanks, frt. alld. E of Denver lb. .37 - —

Acids

Acid quotations are listed individually. For example, prices on Acid, cresylic, may be found in the C's under Cresylic acid.

Aconite root, bls. ..... lb. .50 - .55
Acrolein, tech., dms., c.l., works lb. .51 - —
dms., t.c.l., works ..... lb. .51¾- —
tanks, works ..... lb. .46 - —
Acrylamide, dms., t.l., f.o.b. works. lb. .58 - —
dms., t.t.l., same basis lb. .60 - —
Acrylic acid, glacial, dms., t.t.l., dlvd. lb. .65 - —

Abies Siberica Oil—Ammonium Bicarbonate

Acrylonitrile, dms., c.l., t.l., frt. equald lb. .30 - —
dms., t.c.l., t.t.l., frt. equald lb. .31 - —
tanks, frt. equald ..... lb. .27 - —
Adeps lanae (see lanolin).
Adipic acid, bgs., c.l., dlvd. ..... lb. .32¼- —
bgs., t.c.l., dlvd. lb. .35 - —
Agar, USP, Kobe No. 1, strip, bls. lb. 2.10 - —
powd., 30 mesh., fib., dms lb. 2.40 - —
dl-Alanine, dms., 100-lbs. or more, f.o.b., works lb. 5.25 - —
dms., 1-99 lbs., same basis ... lb. 10.00 - —
Aldol, 95%, dms., t.c.l. ..... lb. .28 - —
Aldrin, tech. fib. dms., c.l., t.l., dlvd lb. .93 - —
fib. dms., t.c.l., dlvd ..... lb. .98 - —

Alcohols

Alcohol quotations are listed individually. For example, prices on Alcohol, furfuryl, may be found in the F's under Furfuryl alcohol.

Aletris root, bgs. ..... lb 1.75 - 1.85
Algin (see Sodium alginate)
Alizarin (see 1,2-Dihydroxy anthraquinone).
Alkali blue dry, 250-lb. bbls., dlvd. E. of Rockies in 123-lb bbls, same basis. lb. 2.38 - —
Alkali blue, toner, litho flushed, 123-lb bbls, same basis. lb. 1.25 - —
Alkali blue prices 1c. higher W. of Rockies
Allethrin, 90% dms., frt. alld lb. 28.80 -28.90
Soln., 20% dms., 200-2,000 lb. lots, frt. alld lb 6.50 6.55
2½% dms. frt. alld. ..... lb. .95 - 1.10
Allspice oil (see Pimento oil).
Allyl alcohol, dms. c.l. dlvd. ... lb. .32½- —
dms., t.c.l., dlvd ..... lb. .34 - —
tanks, dlvd. lb. .30 - —
Allyl bromide 55-lb. cbys. 5,005 lbs. or more, works lb. 1.47 - —
55-lb. cbys., 1,045 to 4,950 lbs., works lb. 1.52 - —
55-lb cbys., 55 to 990 lbs. works. lb. 1.57 - —
Allyl chloride, dms., c.l. dlvd. lb. .17½- —
dms., t.c.l., dlvd ..... lb. .19 - —
tanks, dlvd lb. .15 - —
Allyl isocyanate (see Mustard Oil, syn.)
Almond oil, artif., bitter (see Benzaldehyde).
Almond oil, nat., bitter, f.p.a., bots. lb. 2.75 - 3.40
NF, bots. ..... lb. 3.00 - 3.50
sweet, USP, cns., dms. ..... lb. .75 - 1.30
Aloe, Cape, cs. ..... lb. .35 - .40
powd., cs. ..... lb. .60 - .65
Curacao, kgs. ..... lb. .60 - .70
powd., kgs. ..... lb. .80 - —
Aloin, USP, bbls., dms., kgs. ... lb 3.25 3.75
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene)
Alphapicoline (see a-Picoline).
Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs. 4.30 - —
lump, dms., works ..... 100 lbs. 5.05 - —
powd., dms., works ..... 100 lbs. 5.20 - —
USP, burnt, dms. ..... lb. .20 - .21
hydrous, dms. ..... lb. .07¾- .08
Alum, potassium, gran., bgs., works, c.l., works, frt. equald ton. 41.00 - —
grd., bulk, c.l., same basis ton. 40.00 - —
lump, bgs., c.l., same basis ton. 44.00 - —
Coml., iron-free, bgs., c.l., works, frt equald 100 lbs. 3.60 - —
bgs., t.c.l., works, frt. equald. 100 lbs. 4.30 8.30
USP, gran., dms., works ... lb. .30 - —
powd., dms., works lb. .37 - —
Aluminum sulfate prices $1 per ton higher in the South.
Aluminum trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots ..... oz. 6.50 -10.00
p-Aminoacetanilide, tech., paste, dms., frt. alld lb. 1.57 - —
Aminoacetic acid, NF, bbls., frt. adjusted lb. 1.50 1.75
Aminoazotoluene base, bbls., 100% basis lb. 1.03 - 1.18
p-Aminobenzoic acid, tech., dry, dms., works lb. 1.72 - —
2-Amino-4-chlorophenol, tech., solid, dms., frt. alld lb. 8.10 - —
p-Aminodiphenylamine, tech., solid, dms., frt. alld lb. 3.00 - —
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .475 - —
dms., t.c.l., dlvd ..... lb. .49 - —
tanks, dlvd. ..... lb. .45 - —
2-Amino-2-methyl-1-propanol, dms., c.l., frt. alld lb. .44 - —
dms., t.c.l., frt. alld. ..... lb. .45 - —
tanks, frt. alld. ..... lb. .42 - —
m-Aminophenol, dist., dms., ton lots. lb. 2.05 - —
dms., smaller lots. ..... lb. 2.50 - —
p-Aminophenol, dms., frt. alld. lb. 1.15 - —
Aminophylline, USP, 100-lb. dm., frt. alld lb. 3.55 - —
p-Aminosalicylic acid, dms., 100 lbs. or more, frt. adjusted lb. 3.40 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald. E. of Rockies ton. 88.00 - —
refrigeration, tanks, works, frt. equald E. of Rockies ton. 90.50 - —
Aqueous, 29.4%, tanks, works, anhyd. basis, E. of Rockies. ton. 91.00 - —
Ammoniacal liquor (see Ammonia, aqueous).
Ammoniac, sal, gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 —
bgs., t.c.l., same basis 100 lbs. 8.65 -12.65
Ammoniac, sal., white (see Ammonium chloride, tech.).
Ammonium acetate, purif., dms lb. .40 - —
Ammonium benzoate, USP, fib. dms. ton lots, works lb. 1.00 - —
fib dms. 1,000-lb lots, works. lb. 1.05 - —
Ammonium biborate, gran., dms., c.l., works ton. 325.00 - —
dms., ton lots, ex whse. 100 lbs. 20.40 - —
dms., smaller lots, ex whse. 100 lbs. 21.15 - —
Ammonium bicarbonate, dom., dms., c.l., works. 100 lbs. 7.00 - —
dms., t.c.l., works ..... 100 lbs. 9.00 - —
Aluminum acetate, basic soln., 24%, bbls., t.c.l., works lb. .14 - —
Aluminum chloride, coml., anhyd., dms., c.l., works, frt. equald lb. .16 - —
dms., t.c.l., works ..... lb. .16½- —
cryst., dms., c.l, works 100 lbs. 21.00 - —
dms., t.c.l., works ... 100 lbs. 21.50 - —
soln., 32° cybs., c.l., works... lb. .049½- —
cbys., t.c.l., works ..... lb. .057½- .109½
tanks, works ..... 100 lbs. 3.95 - —
NF, gran., dms., works ..... lb. .31 - .32
Aluminum fluoride, tech., anhyd., bgs., c.l., works lb. .17¼ —
bgs., t.c.l., works ..... lb. .18¼- .20¼
Aluminum fluoride in fib. dms. 0.35c. per lb. higher
Aluminum formate, basic soln., containers extra c.l., works. 100 lbs. 11.00 - —
containers extra, t.c.l., works. 100 lbs. 11.50 - —
Aluminum hydrate, heavy, bgs., c.l., frt. equald lb. .03½- —
bgs., 20,000-40,000 lb. lots, same basis lb. .03¾- —
bgs., 2,000-20,000 lb. lots, same basis lb. .04¾- —
bulk, c.l., same basis ..... lb. .03¼- —
Aluminum hydroxide, dried, USP XV, fib dms., works lb. .82½- —
fib dms., contract, works lb. .79½- —
Aluminum hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib. dms., works lb. .22 - —
9-9½% Al_2O_3, fib dms., works fib dms., contract, works. lb. .19 - —
lb. .18 - —
Aluminum hydroxide, tech., powd. (See Aluminum hydrate).
Aluminum metal, 99%+, ingots, 10,000-lb. lots, frt. alld lb. .2630 —
pigs, 10,000-lb. lots, frt. alld lb. .2470 —
Aluminum oxide, amorphous (See Alumina, calcined).
Aluminum paste, lining, extra-fine, dms lb. .69½- —
Standard grade, dms. ..... lb. .47 - —
Aluminum powder, lining, extra-fine, dms lb. 1.11 - —
Standard grade, dms ..... lb. .81 - —
Aluminum paste and powder prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb for 50-lb. dm., 3c. per lb. for 10 lb. can and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 23,999 lbs. and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over
Aluminum resinate, precip., 2.1% t.t.l., dms lb. .36¼ —
Aluminum stearate, dibasic, ctns., c.l lb. .39 —
ctns., t.c.l ..... lb. .40 .44
Monobasic, ctns., c.l. ..... lb. .39 —
ctns., t.c.l. ..... lb. .40 .44
Tribasic, ctns., c.l. ..... lb. .39 —
ctns., t.c.l. ..... lb. .40 .44
Aluminum sulfate, coml., grd., bgs. c.l., works, frt. equald ton. 41.00 — —
grd., bulk, c.l., same basis ton. 40.00 — —
lump, bgs., c.l., same basis ton. 44.00 — —
Coml., iron-free, bgs., c.l., works, frt equald 100 lbs. 3.60 — —
bgs., t.c.l., works, frt. equald. 100 lbs. 4.30 8.30
USP, gran., dms., works ... lb. .30 - —
powd., dms., works lb. .37 - —
Aluminum sulfate prices $1 per ton higher in the South.
Aluminum trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots ..... oz. 6.50 -10.00
p-Aminoacetanilide, tech., paste, dms., frt. alld lb. 1.57 - —
Aminoacetic acid, NF, bbls., frt. adjusted lb. 1.50 1.75
Aminoazotoluene base, bbls., 100% basis lb. 1.03 - 1.18
p-Aminobenzoic acid, tech., dry, dms., works lb. 1.72 - —
2-Amino-4-chlorophenol, tech., solid, dms., frt. alld lb. 8.10 - —
p-Aminodiphenylamine, tech., solid, dms., frt. alld lb. 3.00 - —
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .475 - —
dms., t.c.l., dlvd ..... lb. .49 - —
tanks, dlvd. ..... lb. .45 - —
2-Amino-2-methyl-1-propanol, dms., c.l., frt. alld lb. .44 - —
dms., t.c.l., frt. alld. ..... lb. .45 - —
tanks, frt. alld. ..... lb. .42 - —
m-Aminophenol, dist., dms., ton lots. lb. 2.05 - —
dms., smaller lots. ..... lb. 2.50 - —
p-Aminophenol, dms., frt. alld. lb. 1.15 - —
Aminophylline, USP, 100-lb. dm., frt. alld lb. 3.55 - —
p-Aminosalicylic acid, dms., 100 lbs. or more, frt. adjusted lb. 3.40 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald. E. of Rockies ton. 88.00 - —
refrigeration, tanks, works, frt. equald E. of Rockies ton. 90.50 - —
Aqueous, 29.4%, tanks, works, anhyd. basis, E. of Rockies. ton. 91.00 - —
Ammoniacal liquor (see Ammonia, aqueous).
Ammoniac, sal, gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 —
bgs., t.c.l., same basis 100 lbs. 8.65 -12.65
Ammoniac, sal., white (see Ammonium chloride, tech.).
Ammonium acetate, purif., dms lb. .40 - —
Ammonium benzoate, USP, fib. dms. ton lots, works lb. 1.00 - —
fib dms. 1,000-lb lots, works. lb. 1.05 - —
Ammonium biborate, gran., dms., c.l., works ton. 325.00 - —
dms., ton lots, ex whse. 100 lbs. 20.40 - —
dms., smaller lots, ex whse. 100 lbs. 21.15 - —
Ammonium bicarbonate, dom., dms., c.l., works. 100 lbs. 7.00 - —
dms., t.c.l., works ..... 100 lbs. 9.00 - —

Abbreviations

Used in OPD Market Quotations

alld.	allowed
amorph.	amorphous
AMP	American melting point
anhyd.	anhydrous
AOAC	Association of Official Agricultural Chemists
a p.a.	available phosphoric acid
approx.	approximately
artif.	artificial
ASTM	American Society for Testing Materials
Atl.	Atlantic
Be.	Baume
bbls.	barrels
bgs.	bags
bls.	bales
bots.	bottles
b.p.	boiling point
b.p.l.	bone phosphate of lime
b.r.	boiling range
bxs.	boxes
C	centigrade
cbys.	carboys
CD	completely denatured
c.i.f.	cost, insurance, freight
cks.	casks
c.l.	carlots
cns.	cans
coml.	commercial
conc.	concentrated
CP	chemically pure
cps.	centipoises
cryst.	crystalline
cs.	cases
ctns.	cartons
cyls.	cylinders
d-	dextro
dbl.	double
denat.	denatured
dest-dist	destructively—distilled
di-	dextrolaevo
dist.	distilled
distr.	distributor
djns.	demijohns
dlvd.	delivered
dms.	drums
dom.	domestic
E	east
e.p.	end point
equald.	equalized
exp.	expressed
Ext.	external
F.	fahrenheit
ferment.	fermentation
f.f.a.	free fatty acid
f.f.c.	free from chlorine
fib.	fiber
f.o.b.	free on board
f.p.a.	free of prussic acid
frt.	freight
gal.	gallon
gran.	granular
grd.	ground
I &a.	iron and aluminum
i.b.p.	initial boiling point
imp.	imported
incl.	included
indust.	industrial
kgs.	kegs
l-	laevo
lacq.	lacquer
lb.	pound
l.c.l.	less than carlots
l.t.l.	less truckload
liq.	liquid
mfrs.	manufacturers
m-	meta
m.a.p.	mixed aniline point
min.	minimum
m.p.	melting point
N-	nitrogen
n-	normal
nat.	natural
neut.	neutral
NF	National Formulary
NNR	New and Nonofficial Remedies
No.	number
nom.	nominal
o-	ortho
ord.	ordinary
oz.	ounce
p-	para
Pac.	Pacific
pf.	proof
phos.	phosphate
photo.	photographic
pkgs.	packages
powd.	powdered
precip.	precipitated
prod.	producer
pt.	point
pulv.	pulverized
purif.	purified
redist.	redistilled
refd.	refined
refy.	refinery
reg.	regular
resub.	resublimed
ret.	returnable
SD	specially denatured
s.d.	single distilled
S E.	southeast
sec.	secondary
secs.	seconds
s.g.	specific gravity
shipt.	shipment
soln.	solution
s.u.	standard unit
syn.	synthetic
tanks.	railroad tankcars
tech.	technical
tert-	tertiary
t.l.	truck loads
t.w.	tank wagons
USP	U S. Pharmacopoeia
vis.	viscosity
VM&P	varnish makers & painters
W.	west
whse.	warehouse
w w	water-white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Ammonium bichromate, dms., works lb. .42 - .43
Ammonium bifluoride, dms., dlvd lb. .2145- .2245
Ammonium bromide, NF, dms., c.l., t.l., frt. equald. lb. .44 - —
dms., l.c.l., same basis lb. .46 - —
Ammonium carbonate, USP, lump, dms., c.l. lb. .15½- —
Ammonium chloride, tech., fine gran., bgs., c.l., works 100 lbs. 5.75 - —
bgs., l.c.l., works 100 lbs. 7.75 - 8.20
USP, gran., fib. dms. lb. .17¼- —
Ammonium citrate dibasic, 250-lb. dm., f.o.b. works lb. .77 - —
Ammonium dichromate (see Ammonium bichromate).
Ammonium fluoride (see Ammonium bifluoride).
Ammonium gluconate, tech., 200-lb. dm., f.o.b. works E lb. .45 - —
Ammonium hydroxide (see Ammonia aqueous).
Ammonium iodide, NF, 25-lb. jar, f.o.b. works lb. 4.26 - —
Ammonium lauryl sulfate, dms., c.l., frt. alld lb. .20½- —
dms., l.t.l., frt. alld. lb. .21½- —
tanks, frt. alld. lb. .19½- —
Ammonium linoleate, 80%, dms., works lb. .50 - .55
Ammonium lignin sulfonate bgs., c.l., works 100 lbs. 3.25 - —
bgs., l.c.l., works 100 lbs. 3.40 - 3.65
Ammonium molybdate, CP, cryst., fib. dms., 15,000 lbs. works lb. 1.22 - —
fib. dms., 2,000-lb. contracts, works lb. 1.23 - —
single fib. dms., works lb. 1.24 - —
Ammonium nitrate, dom., fertilizer grade, 33.5% N bags., f.o.b. works ton 68.00 - —
Imp., Canadian, 33.5% N, eastern, bgs., c.l., ship't point, frt. equald to $3 ton base price. ton 68.00 - —
with dolomite, 20.5% N, bgs., c.l., Hopewell, Va ton 45.50 - —
Ammonium oxalate, tech., fine gran., 250-lb. dm., f.o.b. works E lb. .28½- —
powd., 200-lb. dm., same basis lb. .28½- —
Ammonium pentaborate, gran., bgs., c.l., works ton 193.00 - —
bgs., ton lots, ex whse. 100 lbs. 14.23 - —
bgs., smaller lots, ex whse. 100 lbs. 15.48 - 17.48
Ammonium pentaborate powder $10 per ton higher in bags.
Ammonium persulfate, tech., dms., 10-ton lots or more, works lb. .18 - —
dms., smaller lots, works lb. .20 - .23
Ammonium phosphate, coml., bgs., c.l., works, frt. equald lb. .09¼- —
bgs., l.c.l., same basis lb. .10 - —
Ammonium phosphate, dibasic, NF V, bbls., dms lb. .46 - —
Ammonium phosphate, tech., bgs., c.l., works, frt. equald, lb. .09¼- —
bgs., l.c.l., same basis lb. .10 - —
Ammonium silicofluoride, dms., works lb. .11¾- .13¼
Ammonium sulfamate bgs., c.l., t.l., works lb. .19 - —
bgs., l.c.l., works lb. .20½- .27
Ammonium sulfate, standard granular, bulk, f.o.b. works, base price ton 32.00 - —
purif., bgs., f.o.b. works lb. .08½- .15
large granular, bulk, c.l., works. ton 35.00 - —
bgs., c.l., works ton 40.00 - —
Tech., bulk, c.l., t.l., works ton 52.00 - —
bgs., c.l., t.l., works ton 56.00 - —
bgs., l.c.l., l.t.l., works—100 lbs 3.20 - 7.20
Ammonium sulfide, liq., 40-44%, tanks, frt., equald., 100% basis ton 160.00 - —
Ammonium sulfocyanide, tech. (see Ammonium thiocyanate).
Ammonium thiocyanate, tech., cryst., dms. c.l. works lb. .20 - —
dms., l.c.l., works lb. .22 - .26
tech., soln, 50%, tanks, frt. equald., basis ammonium thiocyanate content lb. .17¼- —
Ammonium thioglycollate, coml., cbys., 100% basis lb. 1.35 - 1.65
Highly purif., cbys. 100% basis. lb. 1.70 - 1.90
d-Amphetamine hydrochloride, dibasic, bots lb. 17.50 - 23.00
dl-Amphetamine hydrochloride, dibasic, bots. lb. 4.50 - 6.00
d-Amphetamine hydrochloride, monobasic, dms. lb. 17.50 - 21.00
d-Amphetamine phosphate, fib. dms., 100-lb. lots lb. 15.00 - —
dl-Amphetamine phosphate, dms. lb. 4.20 - 5.00
d-Amphetamine sulfate, fib. dms., lb. 15.00 - 17.00
dl-Amphetamine sulfate, fib. dms., lb. 4.20 - 5.00
Amyl acetate, ex fusel oil, tech., dist., from 125° to 150°C., dms., c.l., frt. alld. E. of Rockies lb. .18½- .19
dms., l.c.l., same basis lb. .20 - .20¼
tanks, same basis lb. .16 - .16½
Amyl acetate, ex pentane, reg. dms., c.l., dlvd lb. .19 - —
dms., l.c.l., dlvd lb. .21½- —
tanks, dlvd. lb. .16½- —
Tech., dms., c.l., dlvd. lb. .17 - —
dms., l.c.l., dlvd lb. .18½- —
tanks, dlvd. lb. .14½- —
Syn., oxo process, dms., c.l., dlvd. lb. .19 - —
dms., l.c.l., dlvd lb. .20½- —
tanks, dlvd. lb. .16½- —
Amyl alcohol, ex fusel oil (see Fusel oil refd.).
Amyl alcohol, ferment, refd., 128°-132°C., dms., l.c.l., dlvd lb. .43½- —
refd., ACS grade, dms., l.c.l., dlvd lb. .45½- —
Amyl alcohol, ex pentane, mixed, amyls, dms., c.l., frt. alld. lb. .19 - —
dms., l.c.l., frt. alld lb. .20½- —
tanks, frt. alld lb. .16½- —
primary, dms., c.l., frt. alld. lb. .19¾- .20¼
dms., l.c.l., frt. alld lb. .21¼- .21¾
tanks, frt. alld lb. .17¼- .17¾
sec-synthetic, dms., c.l., works, frt. alld lb. .19 - —
dms., l.c.l., works lb. .20½- —
tanks, works. lb. .17 - —
tert-synthetic, dms., c.l., frt, alld. E lb. .17 - —
dms., l.c.l., frt. alld. E lb. .18½- —
tanks, frt. alld. E lb. .14½- —
Amyl alcohol, 1-pentanol (syn. normal), dms., c.l., works lb. .41½- —
dms., l.c.l., works lb. .43 - —
tanks, works lb. .39½- —
Amyl alcohol, 2-pentanol, dms., c.l., works lb. .65 - —
dms., l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
Amyl n-butyrate, dms. lb. 1.00 - 1.25
Amyl cinnamic aldehyde, dms lb. 1.75 - 2.20
p-tert Amyl phenol, dms., c.l., works. lb. .26¾- —
dms., l.c.l., works lb. .27¾- —
Amyl salicylate, cns., dms. lb. .80 - 1.10
Amyris oil, dms. lb. 1.50 - 1.90
Anethole, USP, cns., dms. lb. 1.15 - 1.50
Tech., dms. lb. .85 - .90
Angelica root, bls. lb. .90 - 1.00
Angelica root oil, bots lb. 120.00 - 140.00
Angelica seed oil, bots. lb. 120.00 - 130.00
Aniline, dms., c.l., frt. alld lb. .20 - —
dms., l.c.l., frt. alld. lb. .21 - —
tanks, frt. alld. lb. .18 - —
Aniline oil (see Aniline).
Aniline salt, dms., c.l., truckloads, 20,000 lbs. min., frt. alld. lb. .33 - —
dms., l.c.l., same basis lb. .35 - —
Anise oil, USP, dms. lb. 1.75 - 3.00
Anise seed, Mexican, bgs. lb. .22 - —
Spanish, bgs. lb. .19 - —
Anisic aldehyde, dms. lb. 1.85 - 2.20
o-Anisidine, dms., c.l., frt, alld lb. .80 - —
dms., l.c.l., same basis lb. .82 - —
tanks, same basis lb. .73 - —
p-Anisidine, dms., works lb. .97 - —
Anthracene, 90-95%, dms., c.l., t.l., f.o.b., works lb. .42½- —
dms., l.c.l., minimum shipment 1,000 lbs., same basis lb. .45 - —
Anthranilic acid, 99%, 150-lb. dms., dlvd lb. 1.15 - —
Anthraquinone, 99.5%, bbls., c.l., frt. alld lb. .83 - —
bbls., l.c.l., same basis lb. .86 - —
Electrical grade, bbls., l.c.l., same basis lb. 1.10 - —
Antimony butter (see Antimony trichloride).
Antimony metal, bulk, c.l., mines. lb. .20 - —
cs., c.l., mines lb. .29½- —
Antimony oxide, bgs., c.l., frt. alld. lb. .24½- —
bgs., l.c.l., frt. alld. lb. .26 - —
Antimony sulfide, approx. 65%, bgs., 10,000-lb. lots, dlvd lb. .23 - —
bgs., smaller lots, dlvd lb. .24 - .36
Antimony trichloride, anhyd., solid, pails, c.l., works lb. .41 - —
pails, l.c.l., works lb. .43 - —
Antimony-potassium tartrate, tech., powd., 250-lb. dm., f.o.b. works, E lb. .69½- —
USP, powd., 250-lb. dm., same basis lb. .74½- —
Antipyrine, NF, 200-lb. bbls lb. 3.50 - —
Apomorphine hydrochloride, USP, 25-oz. lots oz. 35.00 - —
Apricot kernel oil, USP, dms. lb. .75 - 1.00
Arabic gum, amber sorts, 10 bgs. lb. .23 - .25
USP, powd., bbls lb. .28 - .32
Areca nuts, powd., bbls. lb. .13 - —
Arecoline hydrobromide, NF, bots., tin oz. 4.00 - 4.50
l-Arginine, free base, dms., 10-kilo lots or more kilo. 90.00 - —
l-Arginine glutamate, dms., 10-kilo lots or more kilo. 60.00 - —
l-Arginine hydrochloride, dms., 10-kilo lots or more kilo. 60.00 - —
Arnica flowers (true Montana), bls. lb. .95 - —
Arsenic, crude (95%), bulk, c.l., works lb. .016 - —
bbls., c.l., works lb. .031 - —
Arsenic trioxide, USP, dms. lb. .48 - —
Arsenic white, powd., bbls., c.l., works lb. .04½- —
bbls., l.c.l., works lb. .06½- .07¼
Arsenous acid, tech. (see Arsenic, white).
Arsenous acid, USP (see Arsenic trioxide).
Arylid maroons, deep shades, bbls. lb. 3.70 - —
Light shades, bbls. lb. 2.85 - —
Asafetida gum, cns. lb. .36 - .40
Powd., bbls., dms lb. .75 - .80
Asbestine (see Talc fibrous, New York).
Asbestos, Canadian crude
6D, c.l. (30 tons) mines ton 86.00 - —
7D, c.l. (30 tons) mines ton 75.00 - —
7F, c.l. (30 tons) mines ton 71.00 - —
7H, c.l. (30 tons) mines ton 61.00 - —
7K, c.l. (30 tons) mines ton 50.00 - —
7M, c.l. (30 tons) mines ton 44.00 - —
7R, c.l. (30 tons) mines ton 43.00 - —
7RF, c.l. (30 tons) mines ton 44.00 - —
7T, c.l. (30 tons) mines ton 41.00 - —
7TF c.l. (30 tons) mines ton 44.00 - —
Asbestos prices are in Canadian funds; l.c.l. lots $4 per ton higher.
Ascorbic acid, USP, 25, 50-kilo dms., kilo 10.00 - —
10 kilo dms. kilo 10.35 - —
5-kilo dm kilo 10.75 - —
1-kilo bottle kilo 11.00 - —
500-gram bottle kilo 11.50 - —

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Ash black (see Barium sulfide).
Asphalt, gilsonite, black jet, bgs., c.l., mines ..ton.40.00 - —
ex-whse, N. Y., N. J. ..ton.86.50 - —
seconds, 300°-390°F. fusing pt., bgs., c.l., mines ..ton.35.00 - —
select, 350°F. fusing pt., bgs., c.l., mines ..ton.41.00 - —
270°-295°F. fusing pt., bgs., c.l., mines ..ton.40.00 - —
Manjak No. 10 crude, dms., works, lb. .07 - —
Asphalt, petroleum, cut-back, tanks, tankwagon, refy gal. .09 - —
emulsion tanks tankwagon, refy, gal. .09½- —
Asphalt, petroleum, steam-refd., 50-60 penetration, tanks, tankwagon, refy ..ton.21.00 - —
85-300 penetration tanks, tankwagon, refy ..ton.20.00 - —
Aspirin (see Acetylsalicylic Acid).
Atropine, NF, tins .....oz. 5.75 - 6.50
Atropine sulfate, USP, bots .....oz. 6.25 - 6.75
Avocado oil, f.o.b. Calif., cns. ..lb. 2.25 - 3.00

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units, less than 1,000,000,000 units, 50,000 units. .65 - —
.70 - —
Balm of Gilead buds, dried, bgs lb. 1.25 - 1.35
Barberry root bark, bgs. .....lb. .50 - —
Barbital, NF, 100-lb. dms. .....lb. 4.50 - —
Barbital sodium, NF, dms. .....lb. 4.75 - —
Barium carbonate precip. bgs., c.l., works ton.111.50 - —
bgs., smaller lots, works ton.126.50 - —
Barium chlorate, dms., works lb. .32 - .41
Barium chloride, anhyd. bgs., c.l., works ton.176.00 - —
bgs., t.c.l., works ton.196.00 - —
Barium chloride, NF, cryst., 100 lb. dms lb. .22 - —
Tech., cryst., bgs., c.l., works, 100 lbs. 7.00 - —
bgs., t.c.l., works .....100 lbs. 8.00 - —
Barium chromate, bgs. frt. equald.lb. .38 - —
Barium dioxide (see Barium peroxide).
Barium hydrate, cryst., ogs., c.l., t.l., frt. equald ton.208.00 - —
bgs., t.c.l., t.t.l., frt. equald ton.218.00 - —
Barium monohydrate, 99%, bgs., c.l., frt. equald 100 lbs.11.25 - —
bgs., t.c.l., frt. equald 100 lbs.11.75 - —
Barium monoxide (see Barium oxide).
Barium nitrate, bbls. c.l., t.l., dlvd. lb. .16 - —
bbls., t.c.l., t.t.l., dlvd. lb. .17 - —
Barium oxide, grd., dms. c.l., t.l., frt equald ton.275.00 - —
dms. t.c.l. t.t.l., frt. equald. ton.285.00 - —
Barium peroxide, dms. frt. equald. lb. .20 - —
Barium stearate, ctns. c.l. frt alld. lb. .41 - —
ctns., t.c.l., same basis ..... lb. .42 - .46
Barium sulfate, tech. (see Barytes and blanc fixe).
Barium sulfate, X-ray, 100-lb. dm.lb. .19½- —
Barium sulfide dms., c.l., works. ton.100.00 - —
dms., t.c.l., works ..... ton.110.00 - —
Barytes, southern, off-color, bgs., mines ton.25.00 - —
95-75%, bgs., mines ..... ton.25.00 - —
white, water-grd., paper bgs., c.l., St. Louis ton.55.00 -55.25
paper bgs., ex whse., New York ton 79.85 - —
Battery acid, cbys. c.l. works, E. 100 lbs. 2.35 - —
cbys., t.c.l., works, E ....100 lbs. 2.65 -10.95
Bauxite, bulk, mines ..... ton. 7.00 -10.00
Bay oil, NF, Puerto Rican, 50-55% cns lb. 2.25 - 2.75
55-60%, cns. ..... lb. 2.50 - 3.05
West Indian, 50-55% cns. dms., lb. 2.30 - 3.00
Bayberry wax, bgs. ..... lb. .45 - .47
Beeswax, crude, African, bgs....lb. .55 - .56
Brazilian, bgs. .....lb. .56 - .57
Central American, bgs. .....lb. .53 - .54
Chilean, bgs. .....lb. .56 Nom.
Refd., USP bleached white, bricks, 100-lb. ctns. .lb. .69 - .71
white, slabs, 100-lb. ctns. ..lb. .68 - .70
yellow, bricks, 100-lb. ctns. .lb. .59 - .61
yellow, slabs, 100-lb. ctns. ..lb. .58 - .60
Belladonna leaf, bls. .....lb. .26 - —
Belladonna root, bls. .....lb. .28 - —
Bentonite, dom. 200 mesh, bgs., c.l., mines ton.14.00 - —
imp. Italian, white, high gel., bgs., 5-ton lots, ex whse ton.91.00 - —
bgs., 1-ton lots, ex whse ton.94.00 - —
low gel., bgs., 5-ton lots ex whse ton.89.35 - —
bgs., 1-ton lots, ex whse..ton.92.35 - —
Benzal chloride, cbys., works. lb. .44 - —
Benzaldehyde, NF, dms. .....lb. .80 - .86
Tech., dms., c.l., t.l. .....lb. .47 - —
dms., l.c.l. .....lb. .48 - —
Benzene, coaltar, pure or nitration, tanks, works:
Bethlehem, Pa. .....gal. .31 - —
Birmingham district ....gal. .31 - —
Chicago district .....gal. .31 - —
Cleveland district .....gal. .31 - —
Geneva, Utah .....gal. .31 - —
Johnstown, Pa. .....gal. .31 - —
Lackawanna, N. Y. ....gal. .31 - —
Lone Star, Tex. .....gal. .31 - —
Lorain, Ohio .....gal. .31 - —
Middletown, Ohio .....gal. .31 - —
Minnequa, Colo. .....gal. .31 - —
Philadelphia district ....gal. .31 - —
Pittsburgh district .....gal. .31 - —
Sparrows Point, Md. ..gal. .31 - —
Syracuse, N. Y. .....gal. .31 - —
Terre Haute, Ind. .....gal. .31 - —
Youngstown, Ohio .....gal. .31 - —
Benzene, petroleum, nitration or industrial, Houston, Tex., tanks, gal. .31 - —
Benzene hexachloride, 25% and 99% gamma isomer (see Lindane).
Benzene hexachloride, tech., high gamma, dms., c.l., dlvd., gamma unit-lb. .00825- —
dms., t.c.l., works gamma unit-lb. .009 - .0095
low gamma, dms., c.l. dlvd. gamma unit-lb. .00825- —
dms., l.c.l., works gamma unit-lb. .009 - —
Benzidine hydrochloride, bbls., c.l., frt. alld., 100% basis lb. 1.19 - —
bbls., t.c.l., same basis ..... lb. 1.21 - —
Benzidine sulfate, tech., bbls., frt. alld., 100% basis lb. 1.21 - —
Benzidine yellow, AAA, bbls. dlvd. lb. 2.30 - —
AAOT, bbls., dlvd. .....lb. 2.55 - —
Lightfast, bbls., dlvd. .....lb. 3.40 - —
Benzocaine, dms. .....lb. 3.48 - 3.50
Benzoic acid, tech., bbls., dms., c.l., t.l., frt., alld. lb. .37 - —
bbls., dms., ton lots, same basis lb. .41 - —
bbls., dms., 1,000-lb. lots, same basis lb. .43 - —
USP, bbls., dms., ton lots.....lb. .46 - —
bbls., dms., 1,000-lb. lots....lb. .50 - —
Benzoin gum, Sumatra, cs. .....lb. .33 - —

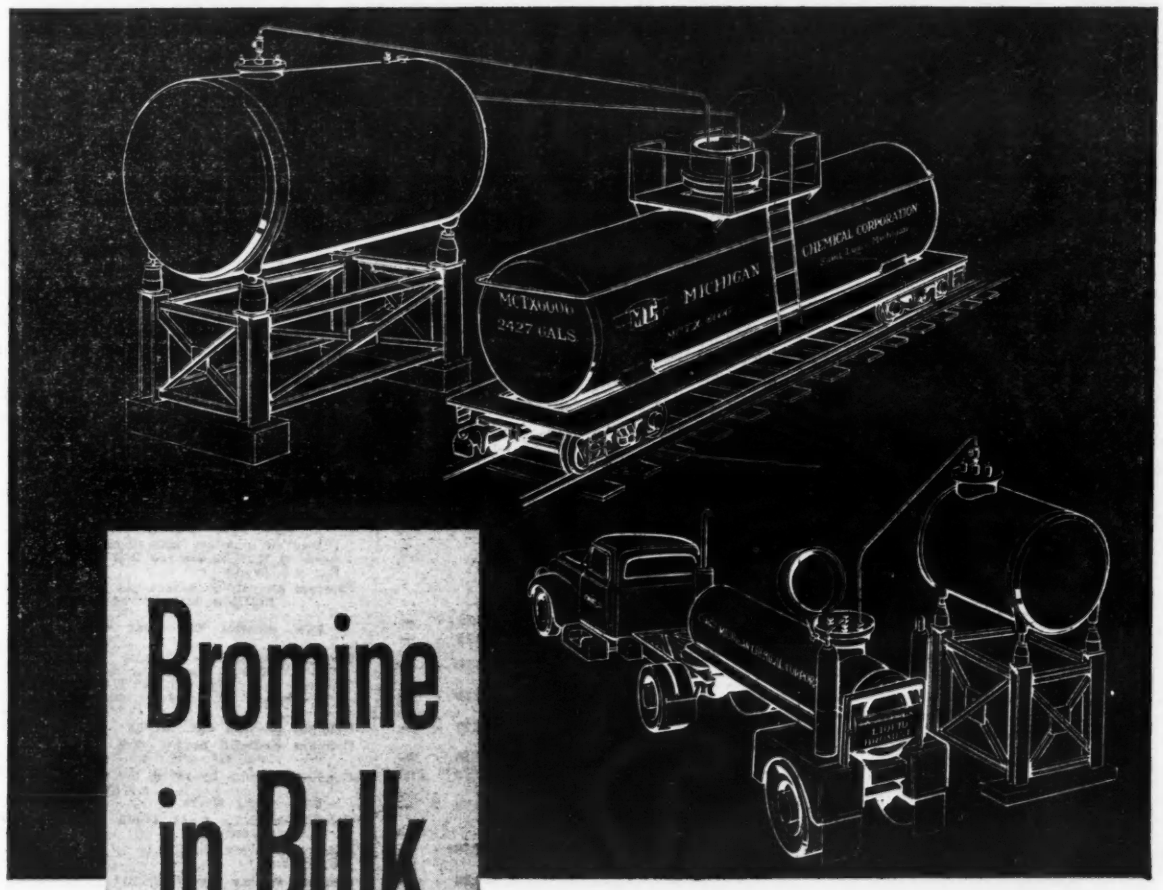
Benzol

Benzol quotations, both coaltar and petroleum, may be found under Benzene.

Benzophenone, dms. .....lb. 1.40 - 1.70
Benzotriazole, tech., dms., 1,000-lb. lots, works. lb. 2.25 - —
Benzotrichloride, cbys., 1,000-lb. lots or more, frt., equald. lb. .21 - —
cbys, smaller lots, frt., equald. lb. .23 - —
Benzoyl chloride, cbys., dms., c.l., works, frt., equald. lb. .22 - —
cbys., t.c.l., same basis..... lb. .23 - —
tanktrucks, dlvd. Metropolitan area lb. .21 - —
Benzoyl peroxide, purif., fib. dms., 50 to 1,000-lb. lots, works. lb. .98 - 1.08
Benzyl acetate, f.f.c., cns., dms. lb. .58 - .79
Benzyl alcohol, NF, dms. ..... lb. .58 - .80
Tech., dms., dlvd. .....lb. 47½- .65
Benzyl benzoate, USP, NF, 40-lb. dms. lb. .68 - —
Benzyl chloride, tech., cbys., dms., c.l., works, frt., equald. lb. .22½- .25½
cbys., dms., t.c.l., same basis lb. 23½- 25½
tanktrucks, dlvd., Metropolitan area. lb. .21 - —
A 2½c. differential is quoted on benzyl chloride in 5-gal cbys. In steel dms. prices are ½c. lower.
Benzyl cinnamate, cns. .....lb. 3.30 - 3.60
Benzyl dimethylamine, dms., works: lb. 2.25 - —
Benzyl formate, cns. .....lb. 1.85 - 2.10
Benzyl isoeugenol, cns. .....lb. 9.50 - —
Benzyl propionate, bots. .....lb. 1.35 - 1.65
Benzyl salicylate, bots. .....lb. 1.60 - 1.85
Benzylidine acetone, bots. .....lb. 1.75 - 1.80
Benzylidine chloride. (see Benzal chloride).
Berberin bisulfate, cns .....lb.48.50 - —
Berberine hydrochloride, bots....lb.48.50 - —
Bergamot oil, nat., NF, Italian, cns. lb.12.60 -14.00
Betagammapicoline (see b,g-Picoline).
Betahydroxynaphthoic acid (see b-Oxynaphthoic acid).
Betaoxynaphthoic acid (see b-Oxynaphthoic acid)
Betamethylnaphthalene (see b-Methylnaphthalene)
Betanaphthol (see b-Naphthol)
Betanaphthylamine (see b-Naphthylamine)
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride, tech.).
Biotin, cryst., bots. .....gram.10.00 - —
Biphenyl (see Diphenyl).
Birchtar oil, crude, cns. .....lb. 1.50 - 1.90
Rectified, cns. .....lb. 1.75 - 2.00
Bismuth chloride, fars .....lb. 5.11 - —
Bismuth hydroxide, dms. .....lb. 4.60 - 4.65
Bismuth metal, bxs., ton lots....lb. 2.25 - —
Bismuth nitrate, cryst. dms. ...lb. 2.08 - 2.17
Bismuth oxide, anhyd., 100-lb. dm., f.o.b. works..lb. 4.42 - —
Bismuth oxychloride, 25-lb. dm., f.o.b. works..lb. 4.42 - —
Bismuth subcarbonate, USP, dms.lb. 3.20 - —
Bismuth subgallate, NF, 200-lb. dm., f.o.b. works..lb. 3.15 - —
Bismuth subiodide, NF, fib. dms lb. 5.37 - —
Bismuth subnitrate, NF, 200-lb. dm., f.o.b. works..lb. 2.65 - —
Bismuth subsalicylate, USP, 100-lb. dm., f.o.b. works..lb. 3.50 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Bisphenol-A, bgs., c.l., t.l., single shipt., 70,000-lbs. or more, frt. alld lb. .29½- —
bgs., c.l., t.l., less than 70,000 lbs., same basis..lb. .30 - —
bgs., t.c.l., same basis .....lb. .31 - —
Blackberry root bark, bls. .....lb. .50 - .55
Black haw root bark, bls. .....lb. .63 - .65
Black haw tree bark, bls. .....lb. .45 - .50

Black Pigments

Black pigment quotations are listed individually. For example, prices on Black, acetylene, may be found in the A's under Acetylene black.



Bromine in Bulk

Saves Dollars! Saves Time!

LOOK AT THESE ADVANTAGES: Thousands of dollars a year can be saved by converting facilities to receive bromine in bulk. For example, with tank car orders, you save 9½¢ a lb. as compared to the drum price; 10½¢ a lb. over bottles. With tank truck orders, you save 7¢ a lb. over drums and 8¢ a lb. over bottle shipments. You will free considerable capital now tied up in container deposits. Finally, you will save both time and money now used in handling the smaller bromine containers.

BULK STORAGE PAYS OFF FAST! If you use as little as 60,000 lbs. of bromine a year, delivered by tank truck, you can save the cost of the necessary 1000 gal. bulk-storage installation in about a year.

Tank cars are available in 60,000 lb. and 100,000 lb. capacities. Tank trucks contain 14,000 lbs. each.

WE CAN SHOW YOU HOW! Our experience in the storage and handling of bromine is extensive and we want to share it with you. If you would like engineering prints, specifications, and technical counsel, get in touch with us. Michigan Chemical also offers you these advantages: A steady, uncommitted supply of bromine at tonnage prices; and a large bromine bulk fleet for prompt service.

Bulk shipments from: El Dorado, Arkansas and Manistee, Michigan. Drums and bottles from Manistee and convenient warehouse locations.

For complete listing of Michigan Chemical products, see your copy of Chemical Materials Catalog or Chemical Week Buyers Guide.

MICHIGAN CHEMICAL CORPORATION

643 North Bankson Street, Saint Louis, Michigan

EASTERN SALES OFFICE: 230 Park Avenue, New York 17, N. Y.

C-59-1

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Blanc fixe, direct process, bgs. c.l., works ton 145.00 - —
bgs., l.c.l., works ton 155.00 - —
bgs., l.c.l., New York whse ton 195.00 - —
Blood, dried, 16-16½% ammonia, unit-ton 5.75 - —
high-grade, unground, 16-17% ammonia, bgs. Chicago, unit-ton 5.75 - —
Bloodroot, bls. lb .50 - .55

Blue Pigments

Blue pigment quotations are listed individually. For example, prices on Blue, ultramarine, may be found in the U's under Ultramarine blue.

Blue dyes (see Dyes)
Blue vitriol (see Copper sulfate)
Bois de rose oil, Brazilian, dms lb 1.90 2.55
Peruvian, dms lb 1.80 2.25
BON acid maroons, pure, bbls lb 1.75 —
Resinated, bbls lb 1.50 —
Bone black, dms., l.c.l frt. alld lb .18 .22¾
Pacific coast bone black prices 2c. per lb. higher
Bonemeal, steamed, works, E ton 75.00 - —
Bone phosphate, defluorinated, of lime (see Defluorinated phosphate).
Bone phosphate, precip. (see Calcium phosphate, tribasic)
Borax, tech., anhyd., 99½%, bgs., c.l., works ton 92.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 7.42 - —
bgs., smaller lots, same basis 100 lbs. 8.67 - 10.67
bulk, c.l., works ton 83.00 - —
gran., decahydrate, 99½%, bgs., c.l., works ton 50.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 5.32 - —
bgs., smaller lots, same basis, 100 lbs. 6.57 - 8.57
bulk, c.l., works ton 43.50 - —
gran., pentahydrate, 99½%, bgs., c.l., works ton 64.50 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 6.05 - —
gran., pentahydrate, 99½%, bgs., smaller lots, same basis 100 lbs. 7.30 - 9.30
bulk, c.l., works ton 58.00 - —
powd., USP, bgs., c.l., works, ton 54.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 6.45 - —
bgs., smaller lots, same basis, 100 lbs. 7.70 - 9.70
Bordeaux powder, tribasic, bgs., c.l., dlvd lb .24 - —
bgs., l.c.l., same basis lb .26 - —
Boric acid, tech., anhyd., 99.9%, bgs., c.l., works ton 335.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 19.62 - —
Boric acid, tech., anhyd., 99.99%, bgs., smaller lots, same basis 100 lbs. 20.87 - 22.87
cryst., 99.9%, bgs., c.l., works, ton 163.50 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 11.05 - —
bgs., smaller lots, same basis, 100 lbs. 12.30 - 14.30
dms., c.l., works ton 188.50 - —
dms., ton lots, ex whse., New York or Chicago, 100 lbs. 12.30 - —
bgs., smaller lots, same basis, 100 lbs. 13.05 - —
gran., 99.9%, bgs., c.l., works, ton 112.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 8.47 - —
bgs., smaller lots, same basis, ton 174.25 - —
dms., c.l., works ton 137.00 - —
dms., ton lots, ex whse, New York or Chicago 100 lbs. 9.72 - —
dms., smaller lots same basis, 100 lbs. 10.47 - —
bulk, c.l., works ton 106.00 - —
powd., bgs., c.l., works, ton lots, ex whse, New York or Chicago 100 lbs. 8.85 - —
bgs., smaller lots, same basis, 100 lbs. 10.10 - 12.10
dms., smaller lots, same basis 100 lbs. 11.45 - —
USP boric acid $25 per ton higher in bags.
Borneol, cns lb 2.75 - —
Boron trichloride, CP, 1,800-lb. cyls., works lb 1.25 - —
100-lb. cyls., works lb 1.70 - —
Boron trifluoride, gas, cyls, t.l., works lb .70 - —
cyls., t.t.l., works lb .70 - —
Brimstone (see Sulfur).
Broenner's acid, bbls. lb 1.53 - —
Bromine, purif., cs., c.l., t.l., dlvd. E of Rockies lb .32 - —
c.s., l.c.l., same basis lb .34 - .39
ret., dms., c.l., t.l., dlvd E of Rockies lb .31 - —
ret., dms., l.c.l., same basis lb .31 - .34
tanks, same basis lb .21½ - —
Bromochloromethane, dms., c.l., frt. equald lb .48 - —
dms., l.c.l., same basis lb .50 - —
tanks, same basis lb .47 - —
Bromoform, pharmaceutical grade, 100-lb. cbys lb 1.80 - 1.90
Bromstyrol, bots. lb 5.45 - 5.70
Brucine, cns. oz. 1.50 - 1.75
Brucine sulfate, NF, cns oz. 1.50 - 1.75
Buchu leaves, bls. lb .95 - 1.05

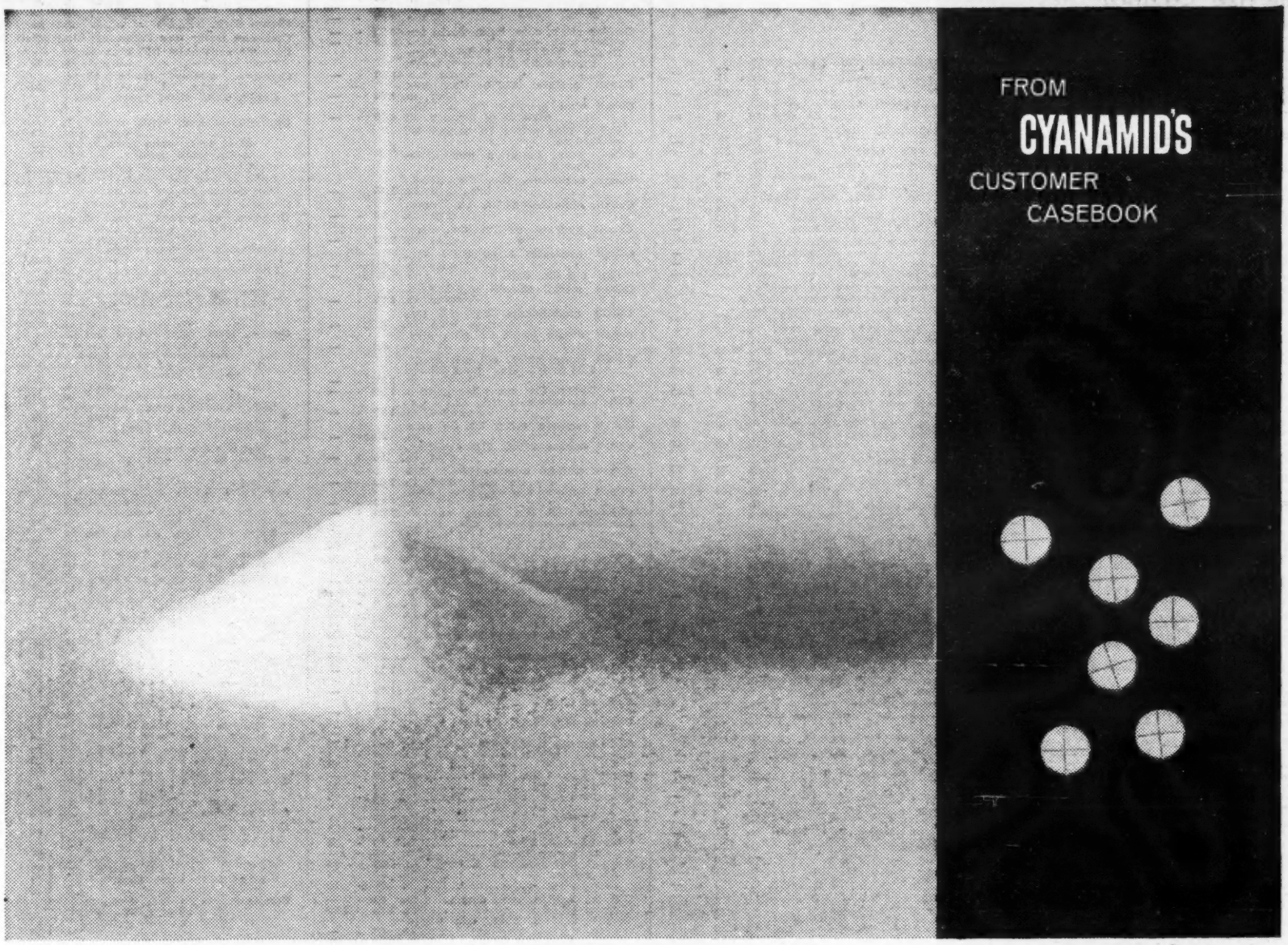
Brown Pigments

Brown pigment quotations are listed individually. For example, prices on Brown, iron oxide, may be found in the I's under Iron oxide brown.

Butadiene, refd. cyls., c.l., refy lb .21 - —
cyls., l.c.l. refy lb .22 - —
tanks, dlvd. lb .14½ - —
n-Butyl acetate, ferment, dms., c.l., frt. alld lb .17 - —
dms., l.c.l., same basis lb .18½ - —
tanks, same basis lb .14½ - —
Syn., dms., c.l., dlvd. E lb .17 - —
dms., l.c.l., same basis lb .18½ - —
tanks, same basis lb .14½ - —
sec-Butyl acetate, syn., dms., c.l., dlvd. E lb .14¾ - —
dms., l.c.l., same basis lb .16¼ - —
tanks, same basis lb .12¼ - —
n-Butyl acrylate, dms., c.l. or t.l., straight or mixed frt alld E. lb .42½ - —
dms., l.t.l., same basis lb .43½ - —
tanks, same basis lb .40 - —
Prices of n-butyl acrylate are 1c. per lb. higher in Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
n-Butyl alcohol, ferment, dms., c.l., frt. alld lb .17½ - —
dms., l.c.l., frt. alld lb .19 - —
tanks, frt. alld lb .15 - —
Syn., dms., c.l., dlvd lb .17½ - —
dms., l.c.l., frt. alld lb .19 - —
tanks, dlvd. lb .15 - —
Butyl alcohol, sec-synthetic, dms., c.l. dlvd lb .15 - —
dms., l.c.l., dlvd lb .16½ - —
tanks, dlvd lb .12½ - —
Butyl alcohol, tert-synthetic dms., c.l., frt. alld dlvd. E lb .15 - —
dms, l.c.l., same basis lb .16½ - —
tanks, same basis lb .12½ - —
Butyl aldehyde (see Butyraldehyde).
Butyl chloride, dms., c.l., works lb .37½ - —
dms., l.c.l., works lb .38¼ - —
n-Butyl ether, dms., c.l., works lb .35¼ - —
dms., l.c.l., works lb .39 - —
tanks, works lb .33¼ - —
Butyl lactate, dms., c.l., frt alld E. of Rockies lb .42½ - —
dms., l.c.l., same basis lb .43½ - —
tanks, same basis lb .40 - —
Butyl laurate, dms., works lb .37½ - —
Butyl methacrylate, dms., c.l., t.l., works lb .55 - —
dms., l.c.l., works lb .55½ - —
Butyl oleate, refd., dms., l.c.l., works lb .32 - —
Butyl phenylacetate dms. lb 4.50 - 4.60
Butyl phthalate (see Dibutyl phthalate)
Butyl stearate, dms., c.l., frt. alld. E. of Mississippi lb .27¼ - —
dms., l.c.l., same basis lb .28¼ - —
Butylamine (see Mono-, Di and Tri-butylamine)
6-tert-Butyl-m-cresol (see mono-tert-m-cresol)
Butylated hydroxytoluene (see 2,6-Di-tert-butyl-p-cresol).
p-tert-Butylphenol, bgs., c.l., dlvd. lb .27½ - —
bgs., l.c.l., works lb .28½ - —
Butyraldehyde, dms., c.l., dlvd lb .22 - —
dms., l.c.l., dvld. lb .23½ - —
tanks, dlvd lb .19½ - —
Butyric acid, 99% dms., c.l., frt. equald lb .34 - —
dms., l.c.l., same basis lb .34½ - —
tanks, same basis lb .32½ - —
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter).
Cadmium CP red, dark shade, bbls., frt. alld. E. of Rockies lb. 5.35 - —
Light shade, bbls., same basis lb. 4.45 - —
Cadmium CP red, medium shade, bbls., same basis lb. 5.10 - —
Medium light shade, bbls., same basis lb. 4.70 - —
Orange-red shade, bbls., same basis lb. 4.10 - —
Yellow, all shades, bbls., frt. alld. E. of Rockies lb. 3.65 - —
Cadmium iodide, 25-lb. fib. dms. lb 6.75 - 7.00
Cadmium metal, ingots or sticks, cs., dlvd lb. 1.30 - —
Cadmium-mercury lithopone orange, deep shade, bbls., frt. alld. E. of Rockies lb. 1.58 - —
Cadmium-mercury lithopone red, dark shade, bbls., same basis lb. 1.88 - —
Red, light shade, bbls. same basis. lb. 1.65 - —
Red, medium shade, bbls., same basis lb. 1.80 - —
Red, medium light shade, bbls., same basis lb. 1.73 - —
Red, maroon shade, bbls., same basis lb. 1.96 - —
Cadmium-selenide lithopone maroon, bbls., frt. alld. E. of Rockies, lb. 2.69 - —
Maroon, dark shade bbls., same basis lb. 2.74 - —
Orange, bbls., same basis lb. 1.51 - —
Cadmium-selenide lithopone red, orange-red shade, bbls., same basis lb. 1.59 - —
Red, light shade, bbls., same basis, lb. 1.81 - —
Red, medium-light shade, bbls., same basis lb. 1.93 - —
Red, medium shade, bbls., same basis lb. 2.16 - —
Red, dark shade, bbls., same basis, lb. 2.49 - —
Cadmium-selenide, lithopone yellow, all shades, bbls., frt. alld. E. of Rockies lb. 1.12 - —
Caffeine, NF, citrated, dms., 100-lb. lots or more lb 2.70 - —
USP, nat., cryst., anhyd., dms., 100-lb. lots or more lb. 2.10 - —
cryst., hydrous, dms., 100-lb. lots or more lb. 1.96 - —
Syn., cryst., anhyd., dms., 100-lb. lots or more lb. 2.10 - —
cryst., hydrous, dms., 100-lb. lots or more lb. 1.96 - —
Cajuput oil, native cns lb. 1.75 - 2.55
Redist., USP, cns lb. 1.90 - 2.10
Calamine, USP, dms. lb. .34 - —
Calamus oil, bots lb. 12.00 - 20.00
Calciferol, cryst., 10-kilo or more lots, works gram .54 - —
1-10 kilo lots gram .55 - —
Calciferol, in edible oil (see Viosterol).
Calcium p-aminosalicylate, trihydrate, fib. dms., 100 lbs. or more, frt. adjusted lb. 3.10 - —
Calcium arsenate, dealers, bgs., c.l., frt. alld lb .09 - .09¼
bgs., l.c.l., same basis lb .10 - .10½
Calcium bromide, NF, 100 lbs. or more lb .97 - —
Calcium carbide, standard generator size, 600-lb. dms., c.l., dlvd ton 149.00 - —
Calcium carbonate, nat., dry-grd., air floated, 325 mesh, bgs., c.l., works ton 10.50 - —
chalk, whiting, 325 mesh, bgs., c.l., works ton 32.00 - 34.00
water-grd., ½ to 10 microns, bgs., c.l., works ton 30.00 - —
10 to 20 microns, bgs., c.l., works ton 17.00 - 18.00
Calcium carbonate, precip., dense, bgs. c.l., works ton 30.00 - 85.00
bgs., l.c.l., works ton 45.00 - 50.00
medium, bgs., c.l., works ton 38.00 - —
bgs., l.c.l., works ton 48.00 - —
Calcium carborate, precip., surface treated, bgs. c.l., works ton 40.00 - 42.00
bgs., l.c.l., works ton 55.00 - 57.00
ultrafine, bgs., c.l., works ton 117.50 - 167.50
bgs., l.c.l., works ton 137.50 - 187.50
Calcium chloride, flake, 77-80%, paper bgs. c.l., works, frt. equald ton 31.00 - —
Conc., flake or pellet, 94-97%, paper bgs., c.l., works, frt. equald ton 37.80 - —
Liquor, 40%, tanks, frt equald ton 12.50 - —
Powd., 77% min., paper bgs., c.l., works, frt. equald ton 37.00 - —
Purif., gran., dms lb .27 - —
Solid, 73-75% dms., c.l., frt. equald ton 29.50 - —
dms. l.c.l., works, frt equald ton 36.00 - 73.00
USP, gran., dms. lb .32 - —
Calcium chromate, bgs., dlvd lb. .37 - —
Calcium cyanide, dms., c.l., dlvd. E. of Rockies equald lb .20 - —
dms., l.c.l., same basis lb .24 - .55
Calcium cyclamate 100-lb dms lb. 1.95 - —
Calcium gluconate, USP, powd., 150-lb. dm., ton lb. .66½ - —
AA, 150-lb. dm., ton lb. .73½ - —
Calcium hydride, lump dms. works lb. 2.20 3.00
Calcium hypochlorite, high test, 45-lb cs., dlvd. E of Rockies cs. 22.95 - 25.10
100-lb. dms., same basis dm. 30.80 - 34.50
Calcium hypophosphite dms., 1,000-lb lots lb. 1.28 - —
Calcium iodide, jars lb. 4.52 - —
Calcium lactate, NF dms. 10,000-lb. lots or more works lb. .36 - .40
dms., smaller lots, works lb. .41 - .48
Calcium mandelate, USP, dms., works lb. 2.10 2.25
Calcium naphthenate, liq., 4% Ca., dms., frt equald lb .30 - —
Calcium pantothenate, 1-kilo or more, kilo. 35.00 - —
Calcium para-aminosalicylate (see Calcium p-aminosalicylate).
Calcium phenolsulfonate, dms lb. 1.24 1.25
Calcium phosphate dibasic, USP, bgs. c.l., frt equald 100 lbs. 8.25 - —
Calcium phosphate, dibasic, feed grade, 18½% P, bgs., c.l., t.l., frt equald ton 83.25 - —
bgs. c.l., t.l. f.o.b. Texas City works ton 77.70 - —
bgs. l.c.l., frt. equald ton 93.25 - —
21% P., bgs., c.l., t.l., frt. equald ton 94.50 - —
bgs., l.c.l. frt. equald ton 104.50 - —
Prices of calcium phosphate dibasic in bulk $3 per ton less than bg., c.l. prices
Calcium phosphate, monobasic, bgs., 10,000-lb. lots, frt. equald, 100 lbs. 7.45 - —
bgs., smaller lots same basis, 100 lbs. 7.95 - —
Calcium phosphate, tribasic NF, precip., bgs. c.l., works, frt. equald 100 lbs. 9.25 - —
bgs., l.c.l., frt. equald, 100 lbs. 10.00 - —
Calcium phytate bgs., works lb. .50 - —
Calcium resinate precip, dms ton lots, frt. alld., works lb. .36¼ - —
Calcium silicate, hydrated, bgs., c.l., works lb. .06 - —
bgs., l.c.l., works lb. .06½ - —
Calcium silicate, paint grade (see Wollastonite)
Calcium stearate, ctns., c.l. lb. .39 - —
ctns., l.c.l. lb. .40 - .44
Calcium sulfate (see Gypsum)
Calomel, NF X, powd., 100-lb. dms. lb. 5.42 - —
Camphene 46° m.p. dms incl., c.l., works lb .15 - —
dms. incl., l.c.l., same basis lb .16½ - —
tanks, same basis lb .12½ - —
Camphene, chlorinated 67-69% (see Toxaphene)
Camphor, monobromated, NF, dms., kgs lb. 3.63 - 3.70
Camphor, nat., USP, powd., cs., 100-lb. lots lb .60 - .65
tablets, 1-oz. cs. lb .85 - .90
USP, gran., powd., bbls., 2,000-lb. lots lb .59 - —
Syn., USP, gran., powd., bbls., 1,000-lb. lots lb .60 - —
bbls., smaller lots lb .61 - —
tablets, ctns., 1,000-lb. lots lb .85 - —
ctns. 500-lb. lots lb .86 - —
ctns. smaller lots lb .87 - —
tech., 1 bbl. or more lb .48 - —
Camphor oil, sassafrassy, dms. lb .35 - .55
White, dms. lb .26 - .50
Cananga oil, native, cns. lb. 6.50 - 7.00
Rectified, cns. lb. 8.25 - 10.00
Candelilla wax, crude, bgs. lb .53 - .54
Refd., bgs. lb .57 - .59
Powdered Candelilla wax 20 to 100 mesh, 8c. higher
Cantharides, Chinese, cs. lb. 1.25 - —
powd., bxs. lb. 1.75 - —
Russian, bgs. lb. 2.25 - —
powd., bxs. lb. 2.75 - —
Capric acid, dms lb. .35½ - .38
tanks lb. .33 - —
Capryl alcohol, 85% dms., c.l., and t.l., works lb .19 - —
dms., t.t.l., same basis lb .19½ - —
tanks, frt. equald lb .16½ - —
Sec. 92-99%, dms., c.l. lb .22 - —
dms., l.c.l. lb .23 - —
tanks lb .19½ - —
Caprylic acid, dms lb. .35½ - .38
tanks lb. .33 - —
Capsicum (see Pepper red).
Capsicum oil (see Capsicum oleoresin).
Capsicum oleoresin, NF, from dom. pepper, dms lb 4.00 - 4.75
NF, from African pepper, dms lb. 4.50 - 5.25
Caraway oil, dms lb 3.10 - 3.50
Caraway seed, Danish, bgs lb .12¼ - —
Dutch, bgs. lb .13 - —
Polish, bgs. lb .12 - —
Carbazole, 97%, bbls., ton lots, works lb 1.05 - —
Carbon black, channel, rubber beads, bulk, c.l., works lb. .07¼ - —
bgs., c.l., works lb. .07¾ - —
bgs., l.c.l., works lb. .15½ - —
Carbon black, furnace, fast extruding, bgs., c.l., works lb. .06¾ - —
ctns., l.c.l., whse. lb. .13½ - —
high abrasion, bulk, c.l., works, lb. .07¼ - —
bgs., c.l., works lb. .07¾ - —
bgs., l.c.l., dlvd. or whse lb. .14¼ - —
high modulus, bgs., c.l., works, lb .06¼ - —
ctns., l.c.l., whse. lb. .13 - —
semi-reinforcing, bgs., c.l., works, lb. .05¾ - —
bgs., ctns., l.c.l., whse. lb. .12½ - —
Carbon black, pigment, high color beads, ctns., c.l., works lb. .72 - —
ctns., l.c.l., dlvd. or whse lb. .79 - —
medium color, uncompressed, bgs., c.l., works lb. .13½ - —
bgs., l.c.l., dlvd. or whse lb. .22 - —
Carbon dioxide, indust., wholesale, bulk, 30,000-2,999,999 lbs., dlvd. Metropolitan areas, E. ton 60.00 - 115.00
bulk, 3,000,000 lbs. or more, Metropolitan areas, E. ton 55.00 - —
Solid, bulk, wholesale, works ton 85.00 - —
Carbon disulfide, 55-gal. dms., c.l., works, frt equald to competitive points lb. .071 —
55-gal. dms., l.c.l., same basis lb. .086 - .091
5-gal. dms., 30 dms to c.l., same basis lb. .131 —
5-gal. dms., less than 30 dms., same basis lb. .161 - —
tanks, dlvd. lb. .0545 - —
Carbon tetrachloride, CP, consumers, dms., c.l., frt. alld lb. .12¾ - —
dms. l.c.l. frt. alld. lb. .15¼ - —
Carbon tetrachloride, tech., consumers, dms., c.l. t.l., frt. alld, lb. .11¾ - —
dms., l.c.l., t.l.l., frt. alld lb. .14¼ - —
tanks, frt. alld. lb. .10¾ - .11¼
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb. lots, works lb 4.00 - 4.25
dms., smaller lots, works lb 4.10 - 4.75
Cardamom oil, NF, bots lb. 41.50 - 45.00
Cardamom seed, bleached "A" lb 2.95 - —
Bleached "B" lb 2.95 - —
Decorticated Alleppey, cs lb. 2.85 - —
Guatemala, cs. lb. 2.85 - —
Green, Alleppey, bgs lb. 2.00 - —
Ceylon, bgs. lb. 2.00 - —
Carmine No. 40, NF, bulk, 100-lb lots or more, dlvd. lb. 16.80 - —
bulk, smaller lots, dlvd lb 16.90 - 17.30
Carnauba wax, chalky, bgs., ton lots lb. .70 - .71
North country, No. 2, crude, bgs., ton lots lb. .82 Nom.
refd., pure, ton lots lb. .92 - .94
North country, No. 3, Ceara, crude, bgs., ton lots lb. .74 - .75
Ceara, refd., pure bgs., ton lots lb. .83 - .84
Parnahyba, crude, bgs., ton lots lb. .76 - .77
Parnahyba, refd., pure, bgs., ton lots lb. .83 - .84
Yellow, No. 1, Ceara, ton lots lb. 1.10 - 1.12
Parnahyba, bgs., ton lots lb. 1.12 - 1.14
Powdered carnauba wax, 20 to 100 mesh, 8c. higher
Carotene tech., 1,350,000 A units per gram, tins 5-10 kilo lots, dlvd gram. .24¼ - —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works million units. .12 - —
USP, microcrystalline in oil, 400,000 A units per gram, dms., dlvd million units. .174 - —
b-Carotene in vegetable oil, semi-solid suspension, 400,000 A units per gram, cns kilo. 57.60 - —
Liquid in vegetable oil, 500,000 A units per gram, cns kilo. 72.00 - —
Pure, cryst., 1,600,000 to 1,670,000 A units per gram, cns kilo. 240.00 - —
Carvol, bots lb 5.00 - 5.40
Cascara sagrada bark, bulk lb .30 - —
Casein, dom., edible, acid precip., 30 mesh., bgs., 10,000-lb. lots or more, works lb .56 - —
edible, acid, precip., 80 mesh, bgs., 10,000-lb lots or more, works lb. .64 - —
Imp., inedible, acid-precip grd., Argentine, bgs., c.l., ex-dock, Eastern seaports lb. .19½ - .20¼
New Zealand, bgs., c.l., same basis lb. .24 - .24½
Cashewnut shell liquid, treated dms., c.l., Newark, N. J. lb. .22 - —
dms., ton lots, same basis lb. .23 - —
dms., dm. lots, same basis lb. .25 - —
Cassella acid, dms., frt. alld., 100% basis lb. 1.44 - 1.75
Cassia, Padang, "A," bls lb. .30 - —
"B," bls. lb. .29 - —
"C," bls. lb. .28 - —
Korintje "A," bls. lb. .29 - —
"B," bls. lb. .28½ - —
"C," bls. lb. .27½ - —
Cassia oil (see Cinnamon leaf oil, USP)
Castor oil, dom., blown, dms. c.l. lb. .2550 - —
dms., l.c.l. lb. .2650 - —
dehydrated, bodied, dms. c.l. lb. .2700 - —
dms., l.c.l. lb. .2850 - —
tanks lb. .2500 - —
dehydrated, unbodied, dms., c.l. lb. .2500 - —
dms., l.c.l. lb. .2660 - —
tanks lb. .2360 - —
hydrogenated, bgs., c.l. lb. .2450 - —
bgs., ton lots lb. .2850 - —
bgs., l.c.l., dlvd lb. .3050 - —
No. 1, dms., c.l. lb. .2150 - —
dms., l.c.l. lb. .2250 - —
tanks lb. .1950 - —
No. 3, tech., dms., c.l. lb. .2125 - —
dms., l.c.l. lb. .2225 - —
tanks lb. .1925 - —
Refd., deodorized, dms., c.l. lb. .2650 - —
dms., l.c.l. lb. .2750 - —
No. 3, USP, dms., c.l. lb. .2650 - —
dms., l.c.l. lb. .2450 - —
tanks lb. .2150 - —
Imported, No. 1, Brazilian, tanks, lb. .17¼ - .17¾
Castor oil, sulfonated, 50%, dms., works lb. .15 - .15¼
75%, dms., works lb. .19 - .19¼
Castor oil acids, dehydrated, dms. lb. .44¼ - .46¼
Split, dms. lb. .37¼ - .38¼
Castor pomace, bgs., c.l., works ton 35.00 - —
Castoreum, nat., cns. lb. 5.25 - —
Syn., cns. lb. 9.00 - —
Catechol, CP, cryst., fib., dms., works lb. 2.17½ - —
Resub., dms., works lb. 4.29½ - —
Catnip leaves, Southern, bls lb. .65 - .75
Caustic potash (see Potash caustic).
Caustic soda (see Soda, caustic)
Cedarleaf oil USP XIII cns. dms. lb. 2.85 - 3.10



PROBLEM

FIND A SUPERIOR GRADE NEOMYCIN SULFATE FOR EASIER TABLET COMPRESSION

ANSWER

Granular Grade Neomycin, developed by American Cyanamid. Prepared by a special technique, this free-flowing neomycin sulfate can be compressed easily into tablets without the addition of a lubricant or diluent. It is another example of how Cyanamid reduces your production costs by offering specific neomycin grades for specific applications.

LET CYANAMID SKILL AND EXPERIENCE GUIDE YOU IN THE PRODUCTION OF ANTIBIOTICS...SULFONAMIDES...VITAMIN SUPPLEMENTS

CYANAMID

AMERICAN CYANAMID COMPANY, FINE CHEMICALS DEPARTMENT
30 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.

Cedarwood oil, cns., dms. ..... lb .51 .65
Celery seed, French, bgs. ..... lb. .33 - —
Indian, bgs. ..... lb. .19 - —
Cellulose acetate, flake, powd., bgs. ctns., 100-lb. lots or more, dlvd.. E. lb. .35 .45
Cellulose acetate-butyrate, powd., 17% butyryl content, bgs., dlvd. E lb. .545 .555
27% butyryl content, bgs., dlvd. E lb. .595 .605
Cellulose acetate-butyrate, 38% butyryl content, bgs., dlvd. E. lb. .545 .555
38% butyryl content, half-second, bgs., dlvd. E lb. .545 .555
50% butyryl content, bgs., dlvd., E lb. .585 .595
Cellulose gum, methyl (see Methyl Cellulose)
Cellulose gum, pure, high vis., bgs., 23,000-lb lots or more works, frt alld lb. .57 —
bgs. smaller lots, same basis. lb. .59 —
Cerium chloride, 46% dms., dlvd lb. .25 - —
Cerium hydrate 74% CeO fib dms., 100-lb lots or more lb 1.40 —
77% CeO. fib dms. 100-lb. lots or more lb 1.74 - —
Cerium oxalate (see Rare earth oxalate).
Cerium oxide, optical grade, bgs., 50-lb. lots or more, dlvd lb 1.85 1.90
bgs., smaller lots, dlvd lb 1.95 —
Cetyl alcohol, NF, fib. cns., c.l., t.l., dlvd. E lb. .41½ —
fib. cns., l.c.l., same basis lb. 43½ —
tanks, same basis lb. .39 —
Cetyl alcohol, NF, special, fib. cns., c.l., t.l., dlvd. E lb. .48½ —
fib. cns., l.c.l., same basis lb. .50½ —
tanks, same basis lb. .46 - —
Chalk (see Calcium carbonate)
Chamomile flowers, Hungarian, bls. lb. 1.75 - —
Roman, cs. ..... lb. 1.50 - —
Chamomile oil, blue Hungarian, bots lb 350.00 —
Charcoal, activated, NF, fib. dms., c.l., works lb. .25 .32
fib dms., 5-ton lots, works lb. .26½ .32½
fib dms. smaller lots works lb. .27 .50
Charcoal, black (see Charcoal, activated)
Charcoal, bone (see Bone black)
Charcoal, hardwood, lump bulk, c.l., f.o.b. plant ton.55.00 - —
briquets, bulk, c.l., f.o.b. plant. ton.78.00 -80.00
5-lb. paper bgs., c.l., same basis ton.106.00 - —
25-lb. paper bgs., c.l., f.o.b. plant ton.87.00 - —
40-lb paper bgs c.l., same basis ton 84.00 —
Chenopodium oil NF, cns. ..... lb. 4.15 - 5.00
Chicago acid paste, bbls frt. alld. lb. 3.21 - —
Chinawood oil (see Tung oil).
Chloral, tech. 94% min. dms., c.l., works lb. .23 - —
dms., t.c.l., works lb. .24 - —
tanks, multiple units, 5 cars, works lb. .21 - —
Chloral hydrate USP, jars, 1,000-lb lots lb 1.00 - —
jars, 500-lb lots. lb 1.03 - —
jars, 100-lb lots or less lb 1.05 - —
Chlordan, agricultural dms., c.l., frt. alld lb. .65 —
dms. t.c.l 5,000 to 10,000-lb. lots, frt alld lb. .66 —
Chlordan, clarified dms. c.l., frt. alld lb. .69 - —
dms. t.c.l. 5,000-10,000-lb lots, frt alld lb. 70 —
Chlorinated paraffin, 42% dms., c.l. frt alld lb. .16¼ —
dms t.c.l 10 dms or more, same basis lb. .17¼ —
70% dms., c.l., same basis lb. .18½ —
dms t.c.l. 10 dms. or more, same basis lb. .19½ —
Chlorinated rubber, 5, 10, 20 cps., ctns., c.l., works lb. .60 - —
ctns., t.c.l., works lb. 61 - —
Chlorinated rubber, 125, 1,000 cps., ctns. c.l., works lb. .70 - —
ctns. t.c.l., works lb. 71 - —
Chlorine, liq., cyls., c.l., works, frt. equald lb. .11 —
cyls., t.c.l. Metropolitan area lb. .12½ .13¾
tanks, single units, works, frt. equald 100 lbs. 3.15 —
tanks, multiple units, 5 cars, works, frt equald 100 lbs 4.05 —
tanks, multiple units 4 cars, same basis 100 lbs 4.25 —
tanks, multiple units, 2 cars, same basis 100 lbs 5.25 5.75
tanks, multiple units, 1 car, same basis 100 lbs. 6.25 7.25
Chloroacetic acid, mono, flake, 99% dms c.l lb. .23½ .25½
dms. t.c.l. lb. .24½ —
tech. flake, 96-97% dms., c.l., frt. equald lb. .19 - —
dms. t.c.l., frt. equald lb. 20 - —
2-Chloro-4-aminotoluene, tech., liq., dms., frt alld lb. 1.03 - —
4-Chloro-2-aminotoluene, fused bbls. lb. 1.38 - —
6-Chloro-2-aminotoluene, tech., liq., dms., frt alld lb. .66 - —
m-Chloroaniline, dms., c.l., frt. alld. lb. .75 - —
dms., t.c.l., same basis lb. .77 - —
tanks, same basis lb. 73 - —
o-Chloroaniline, dms., c.l., frt. alld. lb. .52 - —
dms., t.c.l., same basis lb. .54 - —
tanks, same basis lb. .50 - —
p-Chloroaniline dms., c.l., frt. alld. lb. .77 - —
dms., t.c.l., same basis lb. .79 - —
o-Chlorobenzaldehyde, dms., t.l., works, dlvd. to N.Y. Metropolitan area lb. 1.05 - —
dms., t.t.l., same basis lb. 1.20 - —
p-Chlorobenzaldehyde, dms., l.c.l., works, dlvd. to N. Y. Metropolitan area lb. 1.95 - —
o-Chlorobenzoic acid, fib dms., t.l., works lb. 1.10 - —
fib. dms., smaller lots, works lb. 1.25 - —
p-Chlorobenzoic acid, fib dms., 2,000-lbs. or more, works, lb 2.25 - —
fib. dms., less than 2,000-lbs., same basis lb 2.30 - —
Chloroform, tech., dms., c.l., dlvd. E lb. .18 - —
dms., t.c.l., same basis lb. .19 - —
tanks, same basis lb. .17 - —
USP, dms., c.l., dlvd lb. .27 - —
dms., l.c.l., dlvd lb. .30 - —
tanks, minimum 4,000 gals., dlvd. lb. .25 - —
2-Chloro-4-nitroaniline, paste, dlvd. E. 100% basis lb. .81 - —
Powd. dlvd. E 100% basis lb. .86½ - —
4-Chloro 2-nitroaniline, powd., dlvd. E lb. .80½ - —
4-Chloro-2-nitrophenol, tech., paste, dms., frt. alld lb. .75 - —
4-Chloro-2-nitrotoluene, tech., solid, dms., frt. alld lb. .99 - —
6-Chloro-2-nitrotoluene, tech., solid, dms., frt. alld lb. .17 - —
o-Chlorophenol, dms., c.l., frt. equald lb. .37 - —
dms., t.c.l., same basis lb. .38 - —
p-Chlorophenol, dms., c.l., frt. equald lb. .37 - —
dms. t.c.l., same basis lb. .38 - —
Chloropicrin, coml. cyls., 100 lbs., frt alld lb. 1.07 - —
cyls. 100 lbs. same basis lb. 1.08 - —
cyls., 50 lbs., same basis lb. 1.14 - —
Chlorosulfonic acid, dms., c.l., frt. equald lb. .0465 - —
dms., t.c.l., frt. equald lb. .0515 - —
tanks, frt. equald lb. .0415 - —
Chlorosulfonic acid, in stainless steel dms. ½c. per lb higher
o-Chlorotoluene, tech., dms., t.l., works lb. .37 - —
dms., t.c.l., t.t.l., same basis lb. .38 - —
Choline bitartrate, fib dms. frt. adjusted kilo. 2.75 3.00
Choline chloride fib dms., frt. adjusted kilo. 2.75 3.00
Choline dihydrogen citrate, fib. dms., frt. adjusted kilo. 2.75 3.00
Chrome green, CP, dark, ugnt medium blue content 1-15%, bbls., dlvd. E of Rockies lb. .40 .42
blue content 16-30%, bbls., same basis lb. .40 .42
blue content 31-45%, bbls., same basis lb. .41 43
blue content 45-49%, bbls., same basis lb. .44 - .46
Reduced color, 25% lb. .19 - .20
Chrome green prices 1c. higher W of Rockies.
Chrome orange CP, bbls., dlvd. E. of Rockies lb. .31½ —
Chrome orange prices 1c. higher W. of Rockies
Chrome yellow, CP, bbls., dlvd. E. of Rockies lb. .31½ —
Chrome yellow price 1c. higher W. of Rockies
Chromic acid, 99¾%, dms., c.l., works, frt. equald lb. .29½ —
dms. t.c.l. dlvd. N. Y Metropolitan area lb. .30 .31
Chromic acid, NF (see Chromium trioxide)
Chromium acetate, soln. 7½%, dms., 500-2,000-lb. lots, works. lb. .10 - —
NF, yellow, broken, bgs. lb. .35 .40
Chromium oxide, hydrated, bbls., fib dms., c.l frt alld lb. 1.20 —
Pure, bgs., c.l., frt. alld lb. .44½ —
bgs., t.c.l., same basis lb. .45¼ —
Chromium trioxide, NF, bots lb. 1.15 —
Cinchona bark, NF, red, broken, bgs lb. .25 - —
Chromium fluoride bbls., works lb. .51 - .52
Cinnamic acid, refd bots lb 2.50 3.50
Cinnamic alcohol, bots lb 1.90 2.20
Cinnamic aldehyde, dms lb. .92 1.25
Cinnamon, Ceylon, No. 2, bgs lb. .70 - —
Ceylon, No. "0000," bgs lb. .80 - —
Cinnamon bark oil, bots lb. 36.00 -70.00
Cinnamon leaf oil, crude, dms lb. 1.35 2.00
USP (Cassia), cns., dms lb. 8.50 -13.50
Citral, CP, bots lb. 3.15 - 3.25
Extra, bots. lb. 3.45 5.05
Citric acid USP, anhyd., fine gran., bgs., dms., c.l lb. .29½ - .30
bgs. dms., 10,000-lb lots, 1 shipt lb. .30 - .30½
bgs., dms., smaller lots lb. .30½ - .31
Citric acid, USP, hydrous, fine gran. bgs., dms., c.l lb. .27½ - .28
bgs., dms., 10,000-lb lots, 1 shipt lb. .28 - .28½
bgs., dms., smaller lots lb. .29 .29½
Powdered citric acid ½c. per lb. higher.
Citronella oil, Ceylon, dms lb. .60 - .80
Java-type, dms. lb. .72½ - 1.10
Citronellol, bots., dms lb 2.30 3.30
Civet, artif. bots. lb. 13.75 -15.00
Nat. bots. oz. 8.50 -15.00
Clay, ball, dom., airfloated, bgs., c.l., Tenn ton.17.50 -21.50
crushed shed moisture, bulk, c.l. Tenn ton 8.00 -11.00
Clay, ball, imp., airfloated, bgs, c.l., Atl. port net-ton.42.00 -45.75
lump, bulk, Atl port net-ton.29.50 -35.75
Clay, China, dom., dry-grd., airfloated, 99% 325 mesh, Georgia, bgs. c.l., works.ton.10.00 -12.00
Georgia, bgs. l.c.l. works. ton.15.50 - —
Clay, China, dom., airfloated, 99%, 300 mesh bgs., c.l., Georgia, works ton.13.50 -14.50
bgs. l.c.l. ex whse ton.35.00 -36.00
Clay, China, imp., white, lump, bulk, c.l., ex dock, Philadelphia, Portland, Me long-ton.20.00 -35.00
powd. bgs. c.l. ex dock. net-ton.50.00 —
bgs. t.c.l. ex whse net-ton.60.00 -70.00
Cleaner's naphtha, petroleum, 140°F, flash, tanks, east coast, New Jersey and New York gal. .18 - —
tanks, group 3 gal. .15 - .15½
tanks, Houston, Tex. gal. .19 - —
tankwagon, Newark gal. .19 - —
New York gal. .19 - —
Philadelphia gal. .19½ - —
Cleve's acid, tech., mixed, solid, dms., frt. alld lb. 1.05 - —
Cleve's acid, 1,6, tech. solid, dms., frt. alld lb. .77 - —
1,7, tech., dms., frt. alld. lb. 2.20 - —
Cloves, Madagascar, bgs lb. .40½ —
Zanzibar, bgs. lb. .42½ —
Clove bud oil, USP, dms lb. 2.70 - 3.60
Clove leaf oil, crude, dms. lb. 1.58 - 2.10
CMC, crude, 96.4% low or medium vis. bgs. or fib. dms., 23,000 lbs., dlvd. E., 100% basis lb. .41½ —
96.4% low, or medium vis., bgs. or fib. dms., 23,000 lbs. dlvd. E., 100% basis lb. .43½ - —
65%, low or medium vis., bgs., or fib. dms., c.l., dlvd. E., 100% basis lb. .41½ - —
bgs. or fib. dms. l.c.l., dlvd. E., 100% basis lb. .43½ - —
CMC, purif. high vis. (see Cellulose gum)
CMC, standard, low or medium vis., bgs. 23,000 lbs., works, frt. alld lb. .57 - —
bgs. smaller lots same basis, lb. .59 - —
CMC prices W of the Rockies are 2c. per lb lower and are on a works basis.
Coaltar, crude, resale for soins., tanks, works gal. .17 - —
Coaltar, refd. resale, indust., dms., c.l., ex whse gal. .35 - —
dms., t.c.l., ex whse. gal. .39 - —
tanks works gal. .20½ - —
Coaltar pitch, aluminum, bulk, works ton.44.00 - —
Carbon and indust., bulk, works. ton.44.00 - —
Coaltar pitch, core, bulk, works ton.40.50 - —
Fiber, bulk, works ton.48.00 - —
Roofing, 140-155°F., Federal Specification RP-381 Type 1, tanks, works ton.41.00 - —
Cobalt acetate, 23.7% Co., dms. dlvd lb. 1.04 - —
Cobalt blue, genuine, 250 lb. bbls., dlvd. E. of Rockies lb. 4.90 - —
Cobalt blue prices 1c. higher W. of Rockies.
Cobalt blue, imitation (see Ultramarine blue).
Cobalt carbonate, 48% Co., powd., bgs., dlvd lb. 1.45 - —
Cobalt chloride, 24.2% Co., dms., dlvd lb. .99 - —
Cobalt hydrate, 60-61% Co., dms., dlvd lb. 2.05 - —
Cobalt linoleate, fused 8½% Co., dms lb. .71½ - —
Liq., 6% Co. dms. lb. .57½ - —
Cobalt metal, 97-99% dms. f.o.b. carrier lb. 1.75 - —
Cobalt naphthenate, liq. 6% Co., dms. dlvd lb. .48¾ - —
Cobalt nitrate, 20.1% Co bbls. dlvd. lb. .80 - —
Cobalt oxide, black, ceramic grade, 72½-73½% Co., dlvd. E. of Rockies lb. 1.33 - —
70-71% Co., kgs. same basis lb. 1.29 - —
Cobalt phosphate, powd., 32.1% Co., dms., dlvd lb. 1.35 - —
Cobalt resinate, fused 3% Co. dms. lb. .29¼ - —
Cobalt sulfate, cryst. 21% Co. dms., dlvd lb. .64 - —
Cobalt sulfate, monohydrated, 33% Co. dms., dlvd lb. 1.09 - —
Cobalt tallate, 6% Co. dms. dlvd. lb. .44 - —
Cocaine, USP, cns., 100-oz lots oz.17.80 - —
Cocaine hydrochloride, cns., 100-oz. lots oz.13.75 - —
Cocillana bark, bls lb. .20 - .22
Cocoa butter, bgs lb. .69 - .74
Coconut oil, crude, tanks, New York lb. .19¼ —
tanks, Pac. coast lb. .17½ —
Refd., deodorized, dms lb. .26 - .28
Coconut oil acids, dist., dms lb. .30½ .33
tanks lb. .28 —
double dist. (stripped), dms. lb. .31½ .34
tanks lb. .29 - —
Cod oil, dms., spot lb. .08¾ - .09
Codeine, NF, cns., 100-oz lots oz.13.25 - —
Codeine hydrochloride, cns., 100-oz. lots oz.11.75 - —
Codeine phosphate, USP, cns., 100-oz. lots oz.10.25 - —
Codeine sulfate, USP cns., 100-oz. lots oz.10.75 - —
Codliver oil, USP, dms. gal. 1.40 - 1.70
Cohosh root, black, bls. lb. .20 - .22
Blue, bls. lb. .20 - .22
Colchicine, USP, bots oz.27.00 - —
Colchicum root, bls lb. .30 - .35
Colchicum seed, bgs lb. .60 - .65
Collodion, USP, dms. lb. .32½ - —
Flexible, dms. lb. .34 - —
Colocynth pulp, bls lb. .50 - .55
Colombo root, bls lb. .16 - .18
Conqurango bark, bls. lb. .26 - —
Congo copal gum, No. 1, bgs lb. .25 - .26
No 2 bgs. lb. .22 - .24
No. 3, bgs. lb. .16½ - .19
Copaiba balsam, cns., dms lb. .65 - —
Copaiba oil, cns. lb. 1.35 - 2.00
Copper acetate, bbls., c.l., works. lb. .53 - —
bbls., l.c.l., works lb. .54 - —
Copper carbonate, 55%, bgs., c.l., works lb. .3485 —
bgs., l.c.l., works lb. .3635 —
Copper chloride, cupric, anhyd., dms., works lb. .44¾ - .45¼
Cryst., dihydrate dms., works, lb. .30½ - .31
Cryst., dried, dms., works lb. .38¾ - .39¼
Copper chloride, cuprous, dms., works lb. .4030 - .4330
Copper cyanide, tech., dms., 20,000-lb lots or more lb. .609 - —
dms., 1,000-lb lots or more lb. .619 - —
dms., smaller lots lb. .639 - .659
Copper gluconate, dms. lb. 3.20 - —
Copper hydrate dms., c.l., frt. alld. E. of Miss lb. .51¾ - —
dms., l.c.l., same basis lb. .52¼ - —
Copper metal, electrolytic, dlvd., Valley basis lb. .31½ - —
Copper naphthenate, liq., 8% Cu, dms., frt alld lb. .26½ - —
Copper nitrate, tech., cryst., dms., works lb. .30¾ - .32¾
Copper oleate, solid, 9% Cu, dms., works lb. .45 - —
Copper oxide, black, bbls., 100-5,000-lb. lots, works lb. .47¾ - —
Copper oxide, red, 97%, USN Type I, bbls., 100-5,000-lb lots lb. .48½ - —
90%, USN Type II, bbls., 100-5,000-lb. lots or more, works. lb. .46½ - —
Copper quinolinolate, 18% Cu, dms., ton lots lb. 4.25 - —
10% active quinolinolate, dms lb. 1.14 1.15
Copper resinate, precip, dms., frt. alld lb. .36½ - —
Copper sulfate, CP, gran., dms., works lb. .1920 - —
Cryst., 99%, bgs., c.l., works. 100 lbs.12.30 - —
bgs., l.c.l., works 100 lbs.12.80 -15.30
Copper sulfate, monohydrated, 35%, dms., c.l., works 100 lbs.23.05 - —
dms., l.c.l., works 100 lbs.23.80 - —
Copper sulfate, tribasic, distributors, bgs., c.l., works 100 lbs.28.15 - —
bgs., l.c.l., works 100 lbs.29.15 -32.15
Copper undecylenate, dms lb 2.75 - —
Copra, Atl., Gulf ports, c.i.f. ton.230.00 - —
Pac. ports, c.i.f. ton.225.00 - —
Coriander oil, USP, bots. lb. 9.25 -11.50
Coriander seed, Moroccan, bgs lb. .08 - —
Rumanian, bgs. lb. .07½ - —
Yugoslavian, bgs. lb. .08½ - —
Corn oil, crude, tanks, works lb. .12⅜ - —
Foots (soapstock) acid 95%, tanks, New York lb. .07⅛ Nom.
Refd., salad, dms lb. .1810 - .1835
tanks lb. .1610 - —
Corn oil, acids, dist., dms. lb. .16¾ - .19¼
tanks lb. .14¼ - —
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 7.30 - —
paper bgs., l.c.l 100 lbs. 7.45 - —
Corn syrup, 42° Be., non-ret. dms., c.l 100 lbs. 7.31 - —
non-ret. dms., t.c.l. 100 lbs. 7.46 - —
Corrosive sublimate (see Mercuric chloride).
Cortisone acetate, USP, kilo or more gram. 1.30 - 1.75
Costus oil, bots. oz. 6.00 - —
Cottonseed meal, 41%, bgs., Memphis ton.64.00 - —
Cottonseed oil, crude, tanks, South, East lb. .13¼ Nom.
tanks, Valley lb. .13¼ - —
tanks, Texas, Lubbock lb. .13 - —
tanks, Texas, Waco lb. .13 - —
Foots (soapstock), acid 95%, tanks, New York lb. .05¼ Nom.
Refd., salad, dms lb. .18½ - .18¾
tanks lb. .16½ - —
Cottonseed oil acids, dist., dms lb. .16¾ - .19¼
tanks lb. .14¼ - —
Coumarin, NF, cryst., dms. lb. 3.60 3.70
Cramp bark, NF, bls. lb. .85 - .90
Cream of tartar (see Potassium bitartrate).
Creosote carbonate, NF, bots. cbys., lb. 3.05 3.20
Creosote, coaltar, crude, tanks, works, frt. adjusted gal. .24 - —
Crude, soln. 80%, tanks, works. gal. .226 - —
Creosote, coaltar, refd., dms., c.l., works gal. .50 - —
dms., l.c.l., same basis gal. .62 - —
tanks, same basis gal. .38 - —
West Coast creosote prices computed on a basis of 24c. per gallon for straight oil and 20c. per gallon for coaltar.
Creosote oil (see Creosote coaltar).
Creosote, beechwood, cbys., dms., f.o.b., works, dlvd in Metropolitan area lb. 1.72 1.77
Hardwood, NF, cbys dms., same basis lb. 1.42 1.47
Pinewood, dms., incl., c.l., works lb. .0561 - —
dms incl., t.c.l., works lb. .0634 - —
dms. incl., t.c.l., ex whse, New York lb. .0745 - —
tanks, works lb. .0460 - —
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., frt. alld lb. .16½ - —
non-ret. dms., t.c.l., same basis lb. .17½ - —
tanks, same basis lb. .145 —
USP, non-ret. dms., c.l., same basis lb. .18 —
non-ret dms., t.c.l., same basis lb. .19 - —
tanks, same basis lb. .16 - —
m-Cresol, 95-98% dms. c.l., works. lb. .60 - —
dms., t.c.l. works lb. .61 - —
m-p-Cresol, 5-95% 3°C., dms., c.l., frt. equald lb. .18 - —
dms., t.c.l., same basis lb. .19 - —
tanks, same basis lb. .16 - —
2.97% 2°C., dms., c.l., frt. equald. lb .22 - —
dms., t.c.l., same basis lb. .23 - —
tanks, same basis lb. .20 - —
o-Cresol, 30.5°C. m.p. and over, ret. dms., c.l., frt. equald lb. .17 - —
ret. dms., t.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
30°-30.49°C. m.p., dms., c.l., frt. equald lb. .16½ - —
ret. dms., t.c.l., same basis lb. .17½ - —
tanks, same basis lb. .14½ - —
29°-29.9°C. m.p., dms., c.l., frt. equald lb. .16 - —
ret. dms., t.c.l., same basis lb. .17 - —
tanks, same basis lb. .14 - —
25°-28.9°C. m.p., dms., c.l., frt. equald. lb. .15 - —
ret. dms., t.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
p-Cresol, 98%, dms., c.l., dlvd lb. .52 - —
dms., t.c.l., dlvd. lb. .53 - —
tanks, dlvd. lb. .49 - —
2,3-Cresotic acid, dms., ton lots, works lb. .70 - —
dms., smaller lots, works lb. 72 - —
p-Cresyl methyl ether, cns. lb. 1.80 2.05
Cresylic acid, coaltar, dom., meta-para content above 25%, resins and tricresyl phosphate grades, dms., c.l., t.l., frt. equald gal. 1.35 - —
dms., t.c.l., same basis gal. 1.40 - —
tanks, same basis gal 1.15 - —
Cresylic acid, coaltar, dom., meta-para content 25% or less, dms., c.l., t.l., same basis gal. 1.20 - —
dms., t.c.l., same basis gal. 1.25 - —
tanks, frt. equald. gal. 1.00 - —
Cresylic acid, coaltar, imp., meta-para content, 25% or less, f.o.b. works, frt. equald. to competitive points, 50 dms. or more gal. 1.03½ - —
less than 50 dms., same basis. gal. 1.05 - 1.15
tanks, same basis gal. 1.00 - —
Crotonaldehyde, 91-93%, dms., l.c.l., works lb. .25 - —
Crotonic acid, dms., 200 lbs. or more, l.c.l., works lb. .51 - —
Cryolite, nat., indust., bgs., c.l., works 100 lbs.13.00 - —
bgs., t.c.l., works 100 lbs.14.25 - —
Cube root, powd., 5% rotenone, bgs., c.l., t.l., works lb. .25 - —
Cubeb berries, NF, bgs. lb. 1.00 - —
Powd., cs. lb. 1.15 - —
Cubeb oil, cns. lb.12.00 -16.00
Cumene, dms., c.l., works lb. .12 - —
dms., t.c.l., works lb. .14 - —
tanks, works lb. .11 - —
Cumin seed, Iranian, bgs lb. .30 - —
Moroccan, bgs. lb. .31 - —
Turkish, bgs. lb. .27 - —
Cumin seed oil, bots., cns. lb.15.50 -17.00
Cyanamide, fertilizer, mixing grade, 21% N gran., bgs., Niagara Falls, Ont., contract ton.57.00 - —
pulv., 21% N, bgs., works, unit-ton 2.85 - —
Cyanamide, indust. grade, bgs., c.l., works ton.75.00 - —
bgs., t.c.l., works ton.96.00 - —
Indust. grade, 6-16 mesh, dms., c.l. works ton.120.00 - —
dms., t.c.l., works ton.140.00 - —
Cyclohexane, 99%, tech., dms., c.l., dlvd. E. of Rockies gal. 1.02 - —
dms., t.c.l., same basis gal. 1.10 - —
Cyclohexane, 99%, tech., dms., c.l., dlvd. W. of Rockies gal. .77 - —
dms., t.c.l., same basis gal. .85 - —
tanks, works gal. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld. E lb. .28½ - —
dms., t.c.l., works, same basis, lb. .29½ - —
tanks, works, same basis lb. .26 - —
Cyclohexanone, tech., dms., c.l., works lb. .33½ - —
dms., t.c.l., works lb. .34½ - —
tanks, works lb. .31 - —
Cyclonexylamine, dms., c.l., works. lb. .49 - —
dms., t.c.l., works lb. .50 - —
tanks, works lb. .47 - —
Cyclopropane, CP, 2-lb. cyls., works, cyl.48.00 - —
6-oz cyls., works cyl.12.00 - —
Cyclopropane, USP, hospitals, cyls., 40-gal. lots gal. .42 - —
cyls., 100-gal lots gal. .41 - —
cyls., 200-gal. lots gal. .40 - —
Cypress oil, bots. lb. 5.30 - —

D

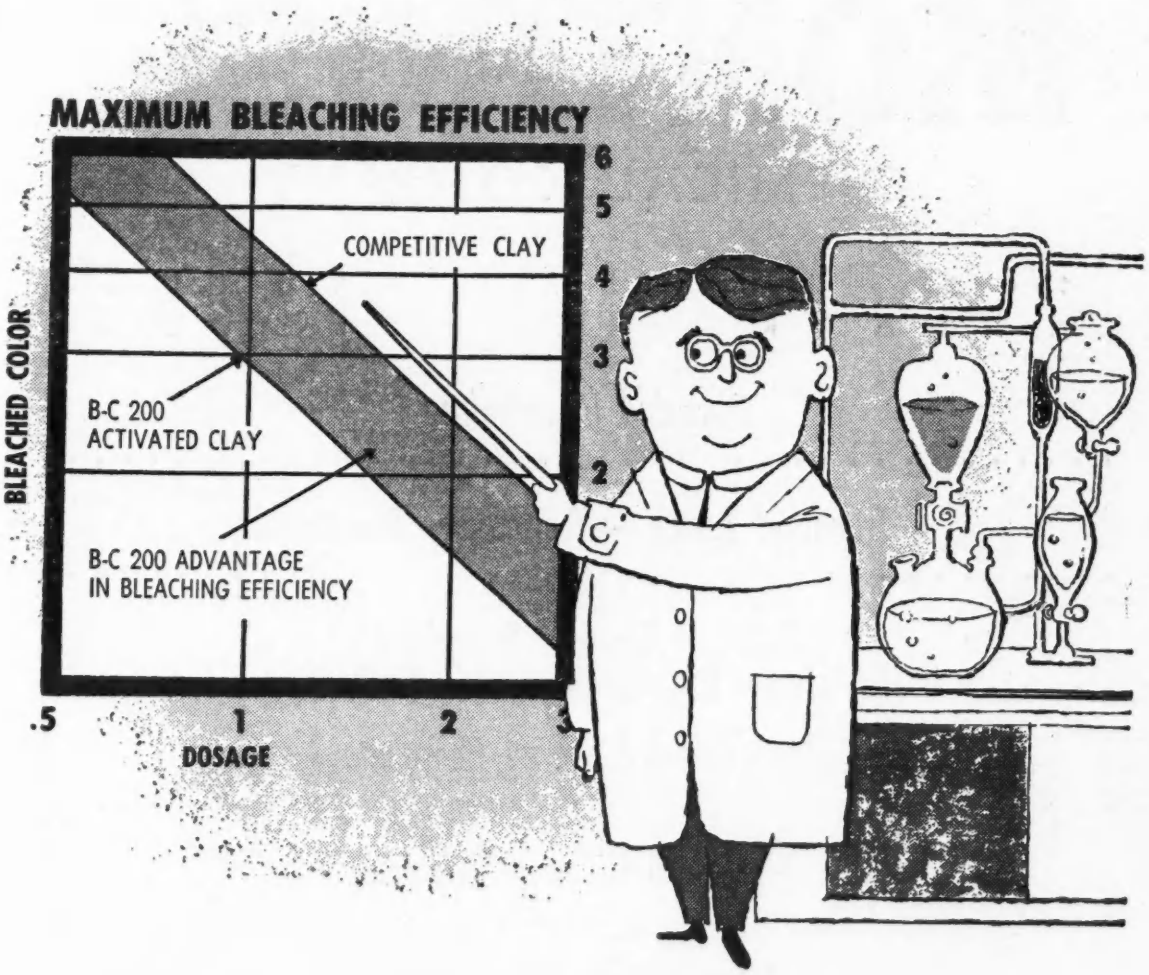
2,4-D, tech., bgs., dms., c.l., works, frt. equald lb. .40 —
bgs., dms., t.c.l., same basis lb. .45 - .49
2,4-D butyl ester, dms., c.l., works. lb. .43 —
dms., t.c.l., same basis lb. .48 - .52
tanks, same basis lb. .42 - —
2,4-D isopropyl ester, dms., c.l., works lb. .43 —
dms., t.c.l., works lb. .48 - .52
tanks, works lb. .42 - —

Dammar gum, Batavia A/E, es	lb.	No stocks.	
East India, Batu, bold, bgs.	lb.	.14¼-	.16½
nubs and chips, bgs	lb.	.08½-	.09½
black, bold, bgs	lb.	.14½-	.16½
nubs and chips, bgs	lb.	.12¼-	.13½
unscraped, bgs.	lb.	.13 -	.14½
pale, chips, bgs	lb.	.14½-	.16
nubs and chips, bgs	lb.	.09 -	.10
Siam, cs.	lb.	.30 -	.33
Singapore No. 1, bgs	lb.	.36 -	.41
No. 2, bgs	lb.	.29 -	.32
No. 3, bgs	lb.	No stocks.	
dust, bgs.	lb.	.17 -	.19
Dandelion root, bls.	lb.	.28 -	.32
DDD, tech., flake, grd., fib, dms., c.l., works	lb.	.45 -	.47
fib dms., l.c.l. works	lb.	.46 -	.48
DDT, flake or lump, bgs., c.l., dlvd	lb.	.23 -	—
bgs., smaller lots same basis.	lb.	.25 -	—
fib. dms., c.l., same basis	lb.	.24 -	—
fib. dms., smaller lots, same basis	lb.	.26 -	—
Powdered DDT 1c. per pound higher.			
1-Decanol, tech., dms., c.l., dlvd E.	lb.	.43½-	—
dms., l.c.l., dlvd. E	lb.	.45½-	—
tanks, dlvd. E	lb.	.41 -	—
Decyl alcohol mixed isomers, dms., c.l., dlvd	lb.	.23½-	—
dms., l.c.l., dlvd	lb.	.25 -	—
tanks, dlvd	lb.	.21 -	—
Perfume grade, bots	lb.	1.75	2.00
Decyl alcohol, normal (see 1-Decanol)			
Deertongue leaves, bls	lb.	.45 -	—
Defluorinated phosphate, feed grade, 13% P, paper bgs., c.l., t.l., works	ton.	51.00 -	—
18% P, paper bgs., c.l., works,	ton.	63.50	69.12
19% P, paper bgs. works, Houston, Tex., c.l., t.l	ton	71.50 -	—
Prices of defluorinated phosphate in bulk $3 per ton less than bg. c.l. prices			
Degras, common, bbls	lb.	.10 -	.12
Neutral, bbls.	lb.	.21 -	.23
Denatured alcohol, ethyl, CD-12, CD-13, CD-14, CD 17, dms., c.l., dlvd E of Rockies	gal.	.69½-	—
dms., l.c.l., same basis	gal.	.74½-	.80½
tanks, dlvd., same basis	gal.	.53½-	—
Tankcar sales require written authorization by Alcohol and Tobacco Tax Division			
Denatured alcohol ethyl, proprietary solvent, dms., c.l. dlvd. E of Rockies	gal.	.72 -	—
dms., l.c.l., same basis	gal.	.77 -	.83
tanks, same basis	gal.	.56 -	—
Tankcar sales require written authorization by Alcohol and Tobacco Tax Division.			
Denatured alcohol, ethyl, SD1 dms., dlvd E of Rockies	gal.	.70½-	—
dms., l.c.l. same basis	gal.	.75½-	.81½
tanks, same basis	gal.	.54½-	—
SD2B dms., c.l. dlvd. E. of Rockies	gal.	.69 -	—
dms., l.c.l., same basis	gal.	.74 -	.80
tanks, same basis	gal.	.53 -	—
SD3A dms., c.l., dlvd. E. of Rockies	gal.	.68 -	—
dms., l.c.l., same basis	gal.	.73 -	.79
tanks, same basis	gal.	.52 -	—
SD23A, dms., l.c.l., dlvd. E of Rockies	gal.	.70½-	—
dms., l.c.l., same basis	gal.	.75½-	.81½
tanks, same basis	gal.	.54½-	—
SD23H, dms., c.l., dlvd. E. of Rockies	gal.	.71 -	—
dms., l.c.l., same basis	gal.	.76 -	.82
tanks, same basis	gal.	.55 -	—
SD29, dms., c.l. dlvd. E. of Rockies	gal.	.69½-	—
dms., l.c.l., same basis	gal.	.74½-	.80½
tanks, same basis	gal.	.53½-	—
SD30, dms., c.l., dlvd. E. of Rockies	gal.	.68 -	—
dms., l.c.l., same basis	gal.	.73 -	.79
tanks, same basis	gal.	.52 -	—
SD-35A, dms., c.l., dlvd. E. of Rockies	gal.	.71 -	—
dms., l.c.l., same basis	gal.	.76 -	.82
tanks, same basis	gal.	.55 -	—
SD-40, dms., c.l., dlvd. E. of Rockies	gal.	.70½-	—
dms., l.c.l., same basis	gal.	.75½-	.81½
tanks, same basis	gal.	.54½-	—
For anhyd. alcohol on above formulas, prices are 7c per gal. higher.			
West coast dlvd. prices are the same as eastern prices, except in Idaho, Montana, Oregon, and Washington where a 5c. differential on tankcars is maintained.			
d-Desoxyephedrine hydrochloride, dms	lb.	15.00	-17.00
dl-Desoxyephedrine hydrochloride, dms	lb.	6.50 -	—
Dextrin, corn, gum, paper bgs., c.l.,	100 lbs.	9.38 -	—
paper bgs., l.c.l	100 lbs.	9.53 -	—
Dextrin, corn, canary dark, paper bgs. c.l	100 lbs.	9.22 -	—
paper bgs., l.c.l	100 lbs.	9.37 -	—
Dextrin, corn, indust. grade, 6-16 mesh, dms., canary light, paper bgs., c.l	100 lbs.	9.12 -	—
paper bgs., l.c.l	100 lbs.	9.27 -	—
white, paper bgs., c.l	100 lbs.	8.96 -	—
paper bgs., l.c.l	100 lbs.	9.11 -	—
Corn dextrin in cotton bgs. 15c. per 100 lbs. higher			
Dextrose, anhyd., coml., bgs., c.l., ex whse	100 lbs.	8.50 -	—
bgs., l.c.l., ex whse	100 lbs.	8.65 -	—
Anhyd., special, al. foil lined fib. dms., 200-lb. dms	100 lbs.	14.70 -	—
100-lb dms	100 lbs.	15.20 -	—
Hydrated, coml., bgs., c.l., ex whse	100 lbs.	7.30 -	—
bgs., l.c.l., ex whse	100 lbs.	7.45 -	—
USP, dms.	lb.	.19¾-	—
Diacetyl, flavor grade, bots	lb.	4.30	4.55
Di-sec-amyl phenol, dms., c.l., works	lb.	.32 -	—
dms., l.c.l., works	lb.	.33 -	—
tanks, works	lb.	.29½-	—
Di-tert-amyl phenol, dms., c.l., works	lb.	.32 -	—
dms., l.c.l., works	lb.	.33 -	—
tanks, works	lb.	.29½-	—
Diacetone alcohol, acetone-free, dms., c.l., dlvd	lb.	.15½-	—
dms., l.c.l., dlvd	lb.	.17 -	—
tanks, dlvd	lb.	.13 -	—
Diacetone alcohol, tech., dms., c.l., dlvd	lb.	.15 -	—
dms., l.c.l., dlvd	lb.	.16½-	—
tanks, dlvd.	lb.	.12½-	—
Diallylamine, dms., c.l., dlvd	lb.	.98½-	—
dms., l.c.l., dlvd	lb.	1.00 -	—
tanks, dlvd.	lb.	.96 -	—
o-Dianisidine, dry, tech., fib. dms.	lb.	2.00 -	—
Dibenzyl sebacate, dms., c.l., works.	lb.	.93 -	—
dms., l.c.l., same basis	lb.	.94 -	—
tanks, same basis	lb.	.91 -	—
p-Dibromobenzene, bgs., 500-lb. lots.	lb.	.55 -	—
2,6-Di-tert-butyl-p-cresol, feed grade, c.l., t.l., dms., dlvd	lb.	.65 -	—
l.t.l., dms., same basis	lb.	.68 -	—
Food grade, c.l., t.l., dms., dlvd.	lb.	.65 -	—
l.t.l., dms., same basis	lb.	.68 -	1.10
2,6-Di-tert-butyl-p-cresol, tech., dms., c.l., t.l., dlvd.	lb.	.57 -	
dms., l.c.l., same basis	lb.	.60 -	
tanks, same basis	lb.	.54 -	

Dibutyl fumarate, dms., c.l., t.l., dlvd. E	lb.	.31½-	—
dms., l.c.l., l.t.l., dlvd. E	lb.	.33 -	—
tanks, dlvd. E	lb.	.29 -	—
Dibutyl maleate, dms., c.l., t.l., dlvd. E	lb.	.31½-	—
dms., l.c.l., l.t.l., dlvd. E	lb.	.33 -	—
tanks, dlvd. E	lb.	.29 -	—
Dibutyl phthalate, dms., c.l., dvd. E.	lb.	.28½-	—
dms., l.c.l., same basis	lb.	.30 -	—
tanktrucks, 1,000-1,999 gals., same basis	lb.	.26½-	—
tankcars, tanktrucks, 2,000 gals., same basis	lb.	.26 -	—
Dibutyl sebacate, dms., c.l., works.	lb.	.67½-	—
dms., l.c.l., works	lb.	.68½-	—
tanks, works	lb.	.65½-	—
Dibutyl tartrate, dms., works, frt. alld	lb.	.65½-	—
Dibutylamine, dms., c.l., dlvd	lb.	.55½-	—
dms., l.c.l., same basis	lb.	.57 -	—
tanks, same basis	lb.	.53 -	—
Dicapryl phthalate, dms., c.l., dlvd.	lb.	.28 -	—
dms., l.c.l., dlvd	lb.	.29½-	—
tanks, dlvd.	lb.	.24½-	—
Dicapryl sebacate, dms., c.l., works.	lb.	.63 -	—
dms., l.c.l., works	lb.	.63½-	.64
tanks, works	lb.	.61 -	—
Dichlorophenoxyacetic acid (see 2,4-D).			
2,5-Dichloroaniline, dms., works	lb.	.83 -	—
3,4-Dichloroaniline, tech., solid, tanks, frt. alld	lb.	.73 -	—
o-Dichlorobenzene, dms., c.l., frt. alld. E	lb.	.12¾-	—
dms., l.c.l., same basis	lb.	.13¾-	—
tanks, same basis	lb.	.11 -	—

p-Dichlorobenzene, dms., c.l., f.o.b., works, frt. alld. E	lb.	.12 -	—
dms. 2,000 lbs. or more same basis.	lb.	.14½-	—
1,4-Dichlorobutane, dms. c.l. or t.l., works	lb.	.33½-	—
dms., l.c.l., or l.t.l., works	lb.	.34 -	—
tanks, works	lb.	.32 -	—
Dichlorodiphenyltrichloroethane (see DDT).			
2,2-Dichloroethyl ether dms., c.l. t.l., dlvd. E	lb.	.15½-	—
dms., l.c.l., l.t.l., same basis	lb.	.17 -	—
tanks, same basis	lb.	.13 -	—
Dichloropentanes, dist., dms., c.l., works	lb.	.05 -	—
dms., l.c.l., works	lb.	.06 -	—
tanks works	lb.	.03 -	—
Dicyclohexylamine dms. c.l. works.	lb.	.54 -	—
dms., l.c.l. works	lb.	.55 -	—
tanks, works	lb.	.52 -	—
Dicyclohexyl phthalate, gran., fib. dms., c.l., works. frt. alld.	lb.	.46½-	—
fib. dms., l.c.l., same basis	lb.	.48 -	—
Didecyl phthalate, dms. c.l. works.	lb.	.28½-	—
dms., l.c.l., same basis	lb.	.30 -	—
tanktrucks, 1,000-1,999 gals, same basis	lb.	.26½-	—
tankcars, tanktrucks, 2,000 gals.,	lb.	.26 -	—
Dieldrin, dms. dlvd	lb.	1.85 -	—
dms., l.c.l., dlvd	lb.	1.90 -	—
Diethanolamine, dms., c.l., dlvd E	lb.	.27 -	—
dms., l.c.l., same basis	lb.	.28½-	—
tanks, same basis	lb.	.24½-	—

Diethanolamine lauryl sulfate, dms., c.l., frt. alld	lb.	.27½-	—
dms., l.t.l., frt. alld	lb.	.28½-	—
tanks, frt. alld	lb.	.26½-	—
Diethyl barbituric acid (see Barbital)			
Diethylbenzene dms. t.l., frt. alld.	lb.	16½-	—
dms., l.t.l., same basis	lb.	.18½-	—
Diethyl carbonate, dms. c.l., f.o.b. works	lb.	47½-	—
dms., l.c.l. same basis	lb.	48½-	—
tanks, same basis	lb.	45 -	—
Diethyl ethanolamines, dms., c.l., dlvd	lb.	69½-	—
dms., l.c.l., dlvd.	lb.	.71 -	—
tanks, dlvd.	lb.	67 -	—
Diethyl oxalate, dms., c.l., f.o.b. works	lb.	42½-	—
dms., l.c.l., same basis	lb.	43½-	—
tanks, same basis	lb.	40 -	—
Diethyl phthalate, dms., c.l., dlvd.	lb.	.27½-	—
dms., l.c.l., dlvd	lb.	.29 -	—
Diethyl phthalate, tanktrucks, 1,000-1,999 gals., same basis	lb.	.26½-	—
tankcars, tanktrucks, 2,000-lb. lots, same basis	lb.	.26 -	—
Diethyl sulfate, dms., c.l., works	lb.	.19½-	—
dms., l.c.l., works	lb.	.20¼-	—
tanks, works	lb.	.17½-	—
Diethyl toluamide, 90-95% meta isomer, dms., c.l., t.l., works	lb	2.30 -	—
5-44 dm lots, works	lb	2.35 -	—
1-4 dm lots, works	lb.	2.40 -	—
Diethylamine, dms., c.l., dlvd. E	lb.	.52 -	—
dms., l.c.l. same basis	lb.	.53½-	—
tanks, same basis	lb.	.49½-	—



HIGH BLEACHING POWER

means the following to Edible Vegetable Oil Refiners;

- **Low Oil Loss** • **Low Clay Cost**
- **Low Freight Cost** • **Low Handling Cost**
- **Low Cake Disposal** • **Low Storage Capacity**
- **Increased Press Capacity**

Bennett-Clark offers Natural Clay and Activated Clay in split carloads for Added Convenience and Increased Savings.

Bennett-Clark Co. Inc.

BOX 951 • NACOGDOCHES, TEXAS

N,N-Diethylaniline dms., c.l., frt. alld lb. .57 - —
dms., l.c.l., same basis lb. .58 - —
tanks, same basis lb. .55 - —
N,N-Diethyl-m-toluidine, tech., liq., tanks, frt. alld lb. .83 - —
Di-2-ethylhexyl adipate (see Dioctyl adipate)
Di-2-ethylhexyl phthalate (see Dioctyl phthalate)
Diethylene glycol, dms. c.l. dlvd. E lb. .17¾ —
dms., l.c.l., same basis lb. .19¼- —
tanks, same basis lb. .15¼ —
Diethylene glycol diethyl ether, dms. c.l., works lb. .51½ —
dms. l.c.l. works lb. 52¼- —
Diethylene glycol monobutyl ether, c.l. dms. works lb. .30¾ —
dms., l.c.l., works lb. .32¼- —
tanks, dlvd E lb. .28¼ —
Diethylene glycol monobutyl ether acetate dms., c.l., works lb. .30¾ —
dms. l.c.l., works lb. .31½- —
tanks, dlvd. E lb. .28¾ —
Diethylene glycol monoethyl ether, dms., c.l., dlvd lb. .22½ —
dms., l.c.l., dlvd lb. .24 - —
tanks, dlvd E lb. .20 - —
Diethylene glycol monoethyl ether acetate dms., c.l., works lb. .27¼ - —
dms., l.c.l., works lb. .28 - —
tanks, works lb. .25¼- —
Diethylene glycol monomethyl ether, dms., c.l., dlvd lb. .21 —
dms., l.c.l., dlvd lb. .22½- —
tanks, dlvd. E lb. .18½- —
Diethylenetriamine, dms., c.l., dlvd. E lb. .44 - —
dms., l.c.l., dlvd. E lb. .45½- —
tanks, dlvd. E lb. 41¼- —
Diethylstilbestrol, USP, bots, 10-kilo lots kilo. 100.00 -147.50
bots., 1-kilo lot kilo. 110.00 -152.50
Digitalis leaves, USP, dom., dms lb 1.20 —
Digitoxin, USP, bots gram 4.75 - —
Diglycol laurate, dms lb. .32¾- .34
Diglycol stearate, dms., ton lots lb. .26 - .28
Diglycolic acid, bgs., c.l., t.l., works. lb. .15½- —
bgs., l.c.l., works lb. .16 - —
Dihexyl sebacate, dms., c.l., works. lb. .66 - —
dms., l.c.l., works lb. .67 - —
tanks, works lb. .64 - —
Dihydrazine sulfate, dms., works lb 1.10 1.25
Dihydrostreptomycin hydrochloride, bulk gram. .037 - .038
Dihydrostreptomycin sulfate, bulk. gram. .037 - .038
1,2-Dihydroxy anthraquinone, dms., works lb. 3.45 - —
2,2-Dihydroxy-5-5-dichloro-diphenyl-methane, pure, dms lb. 2.55 - —
tech., dms. lb. 1.09 - —
Di-isohutyl ketone, dms., c.l., dlvd. lb. .17 - —
dms., l.c.l., dlvd lb. .18½- —
tanks, dlvd. lb. .14½- —
Di-isobutyl phthalate, dms., c.l., dlvd. E lb. .31½- —
dms., l.c.l., same basis lb. .32½- —
tanks same basis lb. .29 - —
Di-isobutylene, dms., c.l., dlvd. E lb. .10 - —
dms., l.c.l., dlvd. E lb. .11½- —
tanks, dlvd. E lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., dlvd lb. .27½- —
dms., l.c.l., same basis lb. .29 - —
tanktrucks, 1,000-1,999 gals lb. .25½- —
tankcars, tanktrucks, 2,000 gals., lb. .25 - —
Di-iso-octyl sebacate, dms., c.l., works lb. .62 - —
dms., l.c.l., works lb. .62½- .63
tanks, works lb. .60 - —
Di-isopropanolamine, dms., c.l., dlvd. lb. .23¼- —
dms., l.c.l., same basis lb. .24¾- —
tanks, same basis lb. .20¾- —
Di-isopropylamine dms., c.l., dlvd. E of Rockies lb. .50½- —
dms., l.c.l., same basis lb. .52 - —
tanks, same basis lb. .48 - —
Dillweed oil, dom., bots., dms lb. 3.10 - 4.10
Dimethyl anthranilate, cns. lb. 4.35 - —
Dimethyl ethanolamines, anhyd., dms., c.l., dlvd lb. 1.225 - —
dms., l.c.l., dlvd. lb. 1.235 - —
tanks, dlvd. lb. 1.20 - —
70% dms. c.l., dlvd., 100% basis, contained ammes lb. .68½- —
dms., l.c.l., dlvd., 100% basis lb. .69½- —
tanks, dlvd., 100% basis lb. .66 - —
Dimethyl hydroquinone, dms. lb. 1.90 - 2.20
Dimethyl phthalate, dms., c.l., works lb. .27½- —
dms., l.c.l., works lb. .29 - —
tanktrucks, 1,000-1,999 gals., same basis lb. .25½- —
tankcars, tanktrucks, 2,000 gals., same basis lb. .25 —
Dimethyl sebacate, dms., c.l., works. lb. 1.31 - —
dms., l.c.l., works lb. 1.30 - —
tanks, works lb. 1.28 - —
Dimethyl sulfate, ret. dms., c.l., works lb. .17½- —
ret. dms., l.c.l., works lb. .18½- —
tanks, works lb. .16½- —
Dimethyl sulfide, dms., c.l., works. lb. .16½- —
dms., l.c.l. works lb. .17 - —
tanks, works lb. .15 - —
Dimethylamine, 25% soln., dms., c.l., frt. equald, 100% basis lb. .38 - —
dms., l.c.l., frt. equald., 100% basis lb. .38½- —
tanks, frt. equald, 100% basis lb. .28 - —
40% soln., dms., c.l., frt. equald, 100% basis lb. .35 - —
dms., l.c.l., frt. equald, 100% basis lb. .35½- —
tanks, frt. equald, 100% basis. lb. .28 - —
N,N-Dimethylaniline, dms., c.l., frt. alld lb. .30 - —
dms., l.c.l. frt. alld. lb. .31 - —
tanks, frt. alld. lb. .28 - —
N,N-Dimethylformamide, dms. works. lb. .34 - .39
tanks, works lb. .32 - —
2,4-Dinitroaniline, dms., frt alld lb. .75 - —
Dinitroaniline orange toner, CP, bbls., dlvd. E. of Rockies lb. 1.56 - —
Dinitroaniline orange toner prices 1c. higher W. of Rockies.
m-Dinitrobenzene, 85°C., dms. lb. .22 - —
89° C., dms. lb. .24 - —
2,4-Dinitrochlorobenzene, crystallizing at 46½°C., dms., c.l., frt. alld. E lb. .15¼ - —
dms., l.c.l., frt. alld. E. lb. .15¾ - —
tanks, frt. alld. E lb. .15 - —
2,4-Dinitrochlorobenzene, crystallizing at 48°C., dms., c.l., frt. alld. E lb. .20¼ - —
dms., l.c.l., frt. alld. E. lb. .20¾ - —
tanks, frt. alld E lb. .20 - —
2,4-Dinitrophenol, bbls. lb. .37 - —
2,4-Dinitrotoluene, oily, dms. lb. .11 - —
Refd., 63°C., dms. lb. .23 - —
Dioctyl adipate, dms. c.l., works. lb. .42½- —
dms., l.c.l. works lb. .43½- —
tanks, works lb. .40 - —
Dioctyl phthalate, dms., c.l., frt. alld lb. .27½- —
dms., l.c.l., frt. alld lb. .29 - —
Dioctyl phthalate, tanktrucks, 1,000-1,999 gals., same basis lb. .25½- —
tankcars, tanktrucks, 2,000 gals., same basis lb. .25 —
Dioctyl sebacate, dms. c.l. works. lb. .61¼- —
dms., l.c.l., works lb. .62¼- —
tanks, works, dlvd. lb. .59¼- —
1,4-Dioxane, dms., c.l. works lb. .30 —
dms., l.c.l. works lb. .30¾ —
tanks, works lb. .28 - —
Dipentaerythritol, c.l., t.l., dlvd. E. lb. .40 - —
bgs., l.c.l., l.t.l., dlvd. E lb. .41 - —
Dipentene, dest.-dist., dms., c.l., works gal. .59 - —
dms., l.c.l., works gal. .63 - —
dms., l.c.l., ex whse. gal. .79 - —
tankcars, works gal. .62 - —
Dipentene, steam dist., dms., c.l., works, South gal. .72 - —
dms., l.c.l., dlvd. New York gal. .91 - —
tanks, works, South gal. .55 - —
Dip oil (see Tar acid oil)
Diphenyl, bgs., c.l., t.l., works lb. .17¼- —
bgs., l.c.l., works lb. .19 - —
tanks, works lb. .16 - —
Diphenyl oxide, perfume grade, cns. lb. .65 - .85
Diphenyl phthalate, dms., c.l., works. lb. .51¾- —
dms., l.c.l. works lb. .53¾- —
Diphenylamine, refd., flake, bgs., c.l., works, frt. equald lb. .31 - —
bgs., l.c.l., same basis lb. .33 - —
Diphenylamine, refd., fused, tanks, same basis lb. .28 - —
Refd. diphenylamine in dms. ½c. per lb. higher.
Diphenylguanidine, bgs., dms., ton lots, frt. alld lb. .49 - —
bgs., smaller lots, frt. alld. lb. .50 - —
Diphenylhydantoin-sodium, USP, dms. lb. 5.00 - 5.60
Dipropylene glycol, dms., c.l., frt. alld lb. .17¾- —
dms., l.c.l., frt. alld lb. .19¼- —
tanks, frt. alld. lb. .15¼- —
Dipropylene glycol methyl ether, dms., c.l., dlvd. E lb. .20 - —
dms., l.c.l., same basis lb. .21½- —
tanks, same basis lb. .18½- —
Dithiodibenzoic acid, dms., 1,000-lb. lots, works lb. 1.45 - —
Di-o-tolylguanidine, dms., ton lots, frt. alld lb. .69 - —
dms., smaller lots, frt. alld. lb. .70 - —
Di-o-tolylthiourea, tech., solid, dms., c.l., t.l., frt. alld lb. .55 - —
Divinylbenzene, 20-25%, dms., c.l., works, frt. equald lb. .20 - —
dms., l.c.l., same basis lb. .21 - —
tanks, same basis lb. .19 - —
50-60%, dms., c.l., works, 100% basis lb. 1.00 - —
dms., l.c.l., works, 100% basis lb. 1.05 - —
Dodecylbenzene, dms., c.l., f.o.b., works, frt. equald lb. .134 - —
dms., l.c.l., same basis lb. .144 - —
tanks, same basis lb. .114 - —
Dodecylphenol, c.l., frt. alld. lb. .22 - —
dms., l.c.l., same basis lb. .23 - —
tanks, same basis lb. .19½- —
Dodecylphenol prices on shipments to Western States are 2c per pound higher
Dyes, coaltar, certified colors for food, drugs and cosmetics, 500-lb. and 1-lb. lots, dlvd:
Blue, FD&C, No. 1 lb. 15.65 -17.60
No. 2 lb. 15.65 -17.60
Green, FD&C, No 1 lb. 15.65 -17.60
No. 2 lb. 19.60 -22.85
No. 3 lb. 31.30 -35.90
Red, FD&C, No. 1, cns. lb. 5.90 - 7.85
No. 2 lb. 3.30 - 4.10
No. 3 lb. 19.60 -22.85
No. 4 lb. 5.55 - 7.50
Violet, FD&C, No. 1, cns. lb. 15.65 -17.60
Yellow, FD&C, No. 1, cns. lb. 9.15 -11.05
No. 5 lb. 3.30 - 4.10
No. 6 lb. 3.30 - 4.10
Dyes, coaltar, certified colors for drugs and cosmetics, 200 lb. and 1 lb. lots, dlvd:—
Black, D&C, No. 1 lb. 10.50 -10.95
Brown, D&C, No. 1 lb. 15.65 -16.10
Green, D&C, No. 5 lb. 15.65 -16.10
No. 6 lb. 15.65 -16.10
No. 7 lb. 14.35 -14.80
Orange, D&C, No. 3 lb. 10.50 -10.95
No. 4 lb. 19.60 -20.05
No. 5 lb. 3.80 - 4.25
Red, D&C, No 17 lb. 10.50 -10.95
No. 18 lb. 23.60 -24.00
No. 19 lb. 15.00 -15.45
No. 21 lb. 3.90 - 4.35
No. 22 lb. 10.50 -10.95
No. 23 lb. 24.15 -24.65
No. 33 lb. 17.00 -17.45
Violet, D&C, No. 2 lb. 15.65 -16.10
Yellow, D&C, No. 7 lb. 10.50 -10.95
No. 8 lb. 10.50 -10.95
No. 10 lb. 13.05 -13.50
No. 11 lb. 13.05 -13.50

MONTROSE
CHEMICAL COMPANY

100 LISTER AVENUE
NEWARK, NEW JERSEY

Dimethyl Isophthalate

Trimethyl Borate — Trimethoxy Boroxine

T.C.P. — Tricresyl Phosphate

Mono Cresyl Diphenyl Phosphate

D.D.T. — Dichloro Diphenyl Trichloroethane

Ethyl Silicate 28% — 40%

D.D.V.P. — Dimethyl Dichloro Vinyl Phosphate
(Minimum 95% Purity)

D.E.T. — Diethyl Toluamide
(95% Meta Isomer)

EXCLUSIVE SALES AGENTS

R. W. GREEFF & CO., INC.
10 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.
1721 TRIBUNE TOWER, CHICAGO, ILLINOIS

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 500-lb. and 1-lb. lots dlvd:—
Blue, Ext., D&C, No. 1, cns ...lb 15.65 -16.10
Green, Ext., D&C, No 1, cns...lb.15.65 -16.10
Red, Ext., D&C, No. 1, cns ...lb.13.05 -13.50
Yellow Ext., D&C, No. 1, cns lb.10.50 -10.95

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour index scale or prototype), contract, dlvd No.
11110 Brilliant scarlet BN .....lb. 1.70 · —
13390 Fast blue SR .....lb. 1.30 · —
14025 Yellow 2G .....lb. 1.18 · —
14030 Orange R, extra, conc. ..lb. 1.52 · —
14645 Chrome black T .....lb. .73 · —
14720 Rubine XX, conc. .....lb. 1.47 · —
15510 Orange Y, extra conc. ...lb. .79 · —
15575 Orange RR .....lb. .94 · —
15620 Fast Red A, conc. .....lb. 1.53 · —
15705 Chrome blue black R, conc. lb. 1.07 · —
16150 Scarlet 2RL .....lb. 1.16 · —
16230 Fast light, orange 2G ...lb. 1.29 · —
16255 Brilliant scarlet 3RN, conc. lb. 1.20 · —
17590 Brown PG .....lb. 3.00 · —
17320 Diazo brilliant scarlet ROAD lb 3.62 · —
18050 Phloxine 2G .....lb. 1.05 · —
18055 Fuchsine 6B .....lb. 1.55 · —
18965 Fast Yellow 2G .....lb. 2.32 · —
19140 Yellow XX .....lb. 2.30 · —
19555 Yellow NN, conc .....lb. 3.67 · —
20170 Brown Y .....lb. 1.27 · —
20470 Blue black, extra, conc lb. 1.37 · —
21010 Brown, RX, conc .....lb. 1.35 · —
22240 Scarlet B .....lb. 2.60 · —
22310 Red FC .....lb. 1.45 · —
22311 Brown MCW .....lb. 1.40 · —
22590 Diazo black BHD .....lb. .93 · —
22610 Blue 2B, extra conc. ....lb. 1.53 · —
23500 Red, 4BX, conc .....lb. 1.69 · —
24410 Sky blue FF, extra, conc.lb. 1.95 · —
24895 Brilliant yellow conc. ..lb. 3.11 · —
26400 Navy blue 3R, conc. .....lb. 1.70 · —
26695 Black F, conc. .....lb. 2.19 · —
26900 Milling Red 3R, conc. ..lb. 1.91 · —
27075 Neutral black 2B, conc. lb. 2.61 · —
27720 Gray L .....lb. 2.08 · —
29185 Fast scarlet 4BNC .....lb. 2.12 · —
30015 Diazo black VJ conc. ....lb. 2.48 · —
30235 Black EB, 200% .....lb. 1.33 · —
30045 Yellow brown K, extra ..lb. 1.26 · —
30295 Green BY, conc .....lb. 1.02 · —
35660 Brown B .....lb. 2.89 · —
37565 Naphthol SWF .....lb. 1.76 · —
40000 Yellow 2G .....lb. 1.31 · —
41000 Yellow OX .....lb. 2.45 · —
42000 Green V, crystals .....lb. 2.73 · —
42040 Brilliant green G crystals.lb. 3.62 · —
42090 Blue EG .....lb. 1.85 · —
42100 Milling green 6B, conc. ..lb. 4.78 · —
42650 Violet 4BXN .....lb. 2.25 · —
42820 Brilliant blue BBG .....lb. 2.44 · —
42845 Blue B, extra conc. .....lb. 3.61 · —
45170 Red BX .....lb. 4.76 · —
50415 Nigrosine SSJ .....lb. 1.03 · —
52015 Blue GXX .....lb. 2.22 · —
53185 Black, GXCF, conc. .....lb. .38 · —
58005 Alizarin red SC .....lb. 3.31 · —
59700 Golden orange GFD, single paste lb. 2.58 · —
59710 Flaming orange 6RD double powder lb. 4.70 · —
59800 Dark blue BO, single paste lb. 2.28 · —
59825 Jade green NC supra, double paste lb. 1.55 · —
61570 Alizarin green CG extra.lb. 3.53 · —
63010 Alizarin blue SAPG .....lb. 3.78 · —
63615 Alizarin blue black B ...lb. 3.02 · —
69825 Blue BLFD double paste..lb. 2.82 · —
70800 Brown BR single paste ..lb. 2.03 · —

Dyes, coaltar, oil-soluble, 100-lb. drums dlvd. No.
12140 Oil scarlet BL .....lb. 1.70 · —
11160 Oil yellow T .....lb. 2.79 · —
12055 Oil orange 7078-V .....lb. 5.87 · —
23120 Oil red N-1700 .....lb. 1.76 · —
42535B Methyl violet base.....lb. 1.76 · —
44045B Victoria blue base.....lb. 4.06 · —
50415B Oil black 8603 .....lb. .80 · —
61565 Alizarin cyanine green base. lb. 6.13 · —

Dyes, coaltar, spirit soluble, 100-lb. dms., dlvd. No.
Spirit black RB .....lb. 3.54 · —
Spirit brown GN .....lb. 5.30 · —
Spirit orange R conc. ....lb. 5.87 · —
Spirit red B conc .....lb. 6.41 · —
Spirit yellow 2R conc. ...lb. 4.62 · —
12055 Spirit orange 7078-V.....lb. 1.25 · —
Spirit blue THN .....lb. 5.06 · —

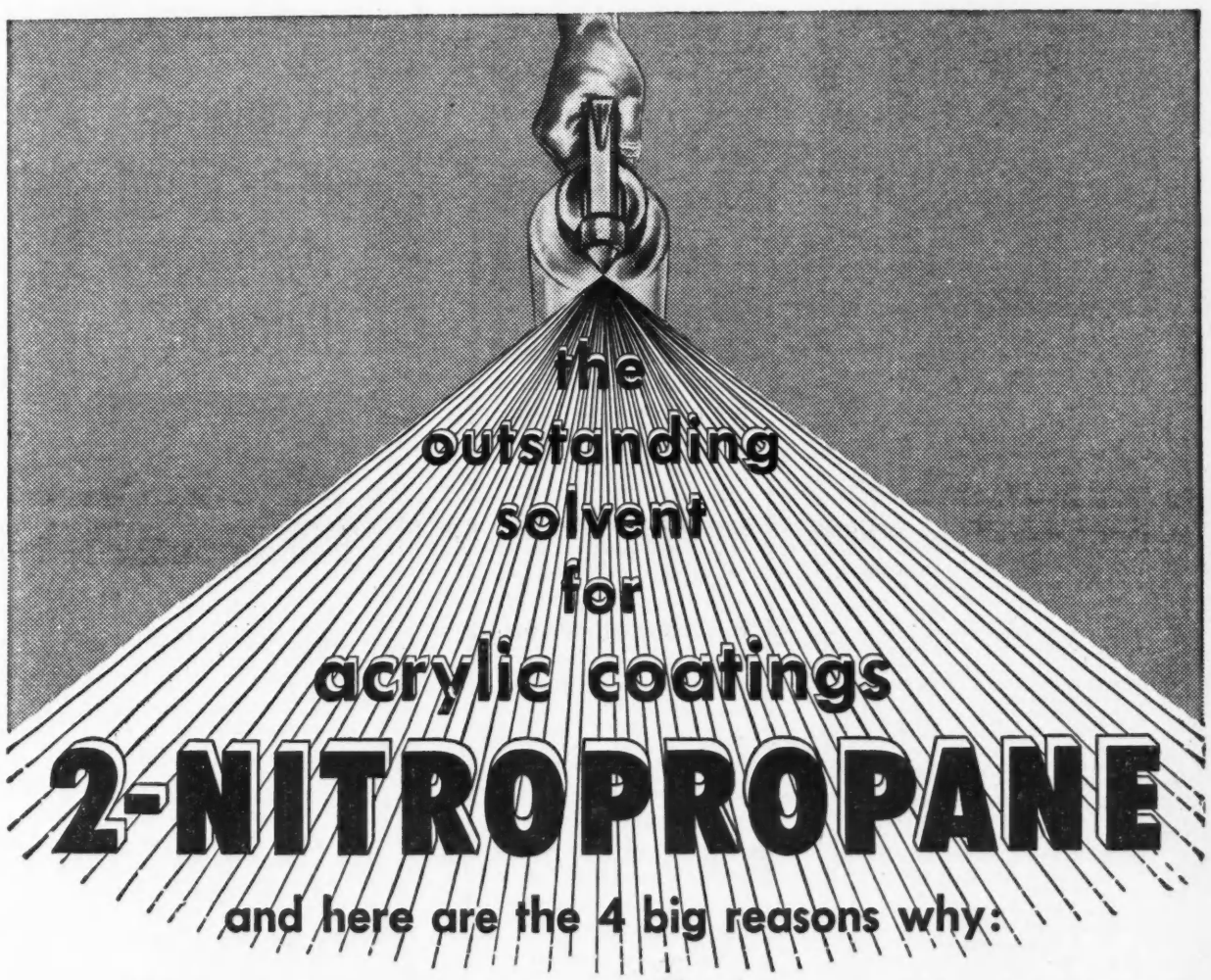
E

Echinacea root, bls .....lb. 1.10 · —
Elm bark, grinding, bls. .....lb. .30 · .32
Powd., bbls., bxs. .....lb. .45 · —
Select, bundles .....lb. .75 · —
Emetine hydrochloride, USP, bots. oz.48.40 · —
Endrin, tech., dms., t.l., dlvd....lb. 3.35 · —
Eosin red toner, bbls., works ...lb. 1.85 · —
Ephedrine, syn., USP, anhyd., bots, 100-oz. lots oz. .98 · 1.00
hydrous bots. 100-oz. lots oz. .92 · —
Ephedrine hydrochloride, NF, dms., oz. .60 · .65
Ephedrine sulfate, USP, cryst., dms., oz. .60 · .80
Powd., dms. .....oz. .60 · .80
Epichlorohydrin, dms., c.l., dlvd lb. .32½ · —
dms., l.c.l., dlvd .....lb. .34 · —
tanks, dlvd. .....lb. .30 · —
Epsom salt (see Magnesium sulfate).
l-Epinephrine base, syn., USP, bots., 100 gram lots gram. .58 · —
Erigeron oil, ens. .....lb.11.00 · —
Ergot, NF, dms., tin-lined.....lb. 1.50 · —
Eserine salicylate, bots .....oz.54.75 · —
Eserine sulfate, bots .....oz.86.00 · —
Ester gum, gum-rosin type, dms., c.l., dlvd., Ill., Md., Ky., E States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va. lb. .17 · —
Ester gum, wood-rosin type, dms., c.l., same basis lb. .17 · —
Ether (see specific product)
Ethyl acetate, nat., ferment. 85-88%, dms., c.l., dlvd lb. .15 · —
dms., l.c.l., dlvd .....lb. .16½ · —
tanks, dlvd. .....lb. .12½ · —
95-98%, dms., c.l., dlvd ...lb. .15¼ · —
dms., c.l., dlvd lb. .15¼ · —
dms., l.c.l., dlvd .....lb. .16¾ · —
tanks, dlvd. .....lb. .12¾ · —
99% dms., c.l., dlvd. .....lb. .15½ · —
dms., l.c.l., dlvd .....lb. .17 · —
tanks, dlvd .....lb. .13 · —
Syn., 85-88%, dms., c.l., dlvd...lb. .15 · —
dms., l.c.l., dlvd .....lb. .16½ · —
tanks, dlvd .....lb. .12½ · —
95-98%, dms., c.l., dlvd.....lb. .15¼ · —
dms., l.c.l., dlvd .....lb. .16¾ · —
tanks, dlvd .....lb. .12¾ · —
99%, dms., c.l., dlvd. .....lb. .15½ · —
dms., l.c.l., dlvd .....lb. .17 · —
tanks, dlvd. .....lb. .13 · —
Ethyl acetoacetate, dms., c.l., dlvd. lb. .58½ · —
dms., l.c.l., dlvd. .....lb. .60 · —
tanks, dlvd. .....lb. .56 · —
Ethyl acrylate, dms., c.l., t.l., dlvd lb. .36 · —
dms., t.t.l., dlvd. .....lb. .37 · —
tanks, dlvd. .....lb. .34 · —

Ethyl alcohol, 190 pf., USP, tax paid dms., c.l., dlvd. E. of Rockies gal.20.63 · —
dms., t.c.l., same basis..gal.20.68 -20.74
Ethyl alcohol, 190 pf., USP, tax-free, dms., c.l., dlvd. E. of Rockies gal..68 · —
dms., t.c.l., same basis gal. .73 · .79
tanks, same basis .... gal. .52 · —
Ethyl alcohol, absolute, 200 pf., tax paid, dms., dlvd. E. of Rockies gal.21.75 · —
dms., t.c.l., same basis gal.21.80 -21.86
tanks, same basis .... gal.21.59 · —
Ethyl alcohol, denatured (see Denatured alcohol, ethyl).
Ethyl aminobenzoate, USP (see Benzocaine).
Ethyl amyl ketone, dms., c.l., dlvd. lb. .20 · —
dms., l.c.l., same basis .....lb. .21½ · —
tanks, same basis .....lb. .17½ · —
Ethyl benzoate, bots .....lb. .90 · —
Ethyl bromide, tech., 98%, dms., c.l., frt. alld. E lb. .43 · —
dms., t.c.l., frt. alld. E .. lb. .45 · —
tanks, frt. alld. E .... lb. .41 · —
2-Ethyl butyl alcohol, dms., c.l., works lb. .30 · —
dms., t.c.l., works .....lb. .30¾ · —
tanks, works .....lb. .28 · —
Ethyl butyl ketone, dms., c.l., t.l., works lb. .36 · —
dms., t.c.l., t.t.l., works .....lb. .36¾ · —
tanks, works .....lb. .34 · —
Ethyl butyrate, works .....lb. .90 · 1.00
Ethyl carbamate (see Urethane).
Ethyl cellulose, vis. 7 cps., bgs., 5,000-lb. lots or more, frt. alld. E lb. .73 · —
bgs., smaller lots, frt. alld E.lb. .75 · —
Ethyl cellulose, vis. to. 20, 50, 100, 150 cps., bgs., 5,000-lb. lots or more, frt. alld. E. lb. .68 · —
bgs., smaller lots, frt. alld E. lb. .70 · —

Ethyl chloride, tech., cyls., works. lb. .20 · .22
dms., works .....lb. .18 · .20
tanks, works .....lb. .10 · —
Ethyl cinnamate, cns. .....lb. 3.35 · 3.50
Ethyl ethanolamines, mixed, dms., c.l., dlvd E lb. .43½ · —
dms., t.c.l., dlvd. E .....lb. .44½ · —
tanks, dlvd. E. .....lb. .41½ · —
Ethyl ether, absolute ACS, dms lb. .27 · —
Ethyl ether, anesthesia, USP, dealers, 1-lb. cns. lb. 1.01 · —
½-lb. cns. .....lb. 1.09 · —
¼-lb. cns. .....lb. 1.21 · —
Ethyl ether, indust., dms., c.l., dlvd. lb. .13½ · —
dms., t.c.l., dlvd E .....lb. .15 · —
tanks, dlvd. E. .....lb. .11 · —
2-Ethyl hexoic acid, dms., c.l., t.l., dlvd. E lb. .37 · —
dms., t.c.l., t.t.l., dlvd. E. .....lb. .38½ · —
tanks, dlvd. E .....lb. .34½ · —
2-Ethyl hexoic acid, 1c. higher W. of Rockies.
2-Ethylhexyl acrylate, c.l. or t.l., straight or mixed frt. alld. E lb. .42½ · —
dms., t.t.l., same basis .....lb. .43½ · —
tanks, same basis .....lb. .40 · —
Prices of 2-ethylhexyl acrylate are 1½c. per lb. higher in Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
2-Ethylhexyl alcohol, dms c.l., dlvd. lb. .23¾ · —
dms., t.c.l., dlvd. .....lb. .25¼ · —
tanks, dlvd. .....lb. .21¼ · —
Ethyl iodide, cbys., works .....lb. 3.30 · —

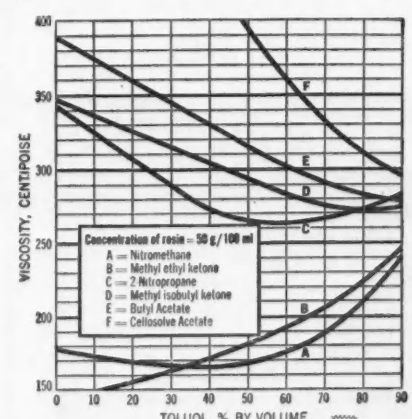
Ethyl methacrylate, dms., c.l., frt equald lb. .52 · —
dms., t.t.l. frt. equald. .....lb. .52½ · —
tanks, frt. equald .....lb. .50 · —
Ethyl morphine hydrochloride, USP bots oz.11.85 · —
N-Ethyl-a-naphthylamine,
Ethyl oenanthate, dms. ..... lb 1.20 1.50
Ethyl oxalate (see Diethyl oxalate)
Ethyl silicate, dist. (see Tetraethyl orthosilicate).
Ethyl silicate, 40% available, SiO, dms., c.l., dlvd lb. .44½ · —
dms., t.c.l. dlvd. .....lb. .46 · —
tanks, dlvd. .....lb. .42 · —
N-Ethyl-a-naphthylamine, dms., works lb 1.02 · —
N-Ethyl-m-toluidine, tech., liq., tanks, frt. alld lb. .83 · —
N-Ethyl-o-toluidide, bbls .....lb. .88 · —
Ethylamine (see Mono-, Di-, or Tri-).
N-Ethylaniline, dms., c.l., frt. alld. lb. .57 · —
dms., t.c.l., frt. alld. .....lb. .58 · —
tanks, frt. alld. .....lb. .55 · —
Ethylbenzene 99% dms., c.l. or t.l., frt. equald lb. .15 · —
dms., t.c.l., same basis .....lb. .17 · —
tanks, same basis.....lb. .12½ · —
2-Ethylbutyl alcohol, dms., c.l., works lb. .30 · —
dms., t.c.l., works .....lb. .30¾ · —
Ethylene, contract, ref'y. gate....lb. .0475- .0525
Ethylene dibromide, dms., c.l., frt. equald lb. .30½ · —
dms., t.c.l. frt. equald. .....lb. .31½ · —
tanks, frt. equald .....lb. .28½ · —



- 2-NP has an ideal evaporation rate for spray application. It gives solutions that show less webbing and better break-up.
- With aromatics, 2-NP gives lower solution viscosities than most commonly used solvents.
- Films deposited by 2-NP show excellent solvent release.
- Use of 2-NP reduces cutting time.

Chart to the right shows the excellent solvency characteristics of 2-NP-Toluol blends for the resin B-82. Get the full story on why 2-NP is so outstanding in acrylic resin formulations.

Write for Technical Bulletin No. 8.



VISCOSITY OF SOLUTIONS OF ACRYLOID B-82

INDUSTRIAL CHEMICALS DEPARTMENT
COMMERCIAL SOLVENTS CORPORATION
260 MADISON AVE., NEW YORK 16, N. Y.
Atlanta • Boston • Chicago • Cincinnati • Cleveland • Detroit • Kansas City • Los Angeles • New Orleans
Newark • New York • St. Louis • San Francisco
IN CANADA: McArthur Chemical Co. (1958) Ltd., Montreal • IN MEXICO: Comsolmex, S. A., Mexico 7, D. F.

Ethylene dichloride, dms., c.l., dlvd. lb. .11½- —
dms., l.c.l., same basis ..... lb. .13 - —
tanks, same basis ..... lb. .09 - —
Ethylene dichloride prices W of Rockies, 1c. per lb. higher.
Ethylene glycol, indust., dms., c.l., dlvd. E lb. .16 - —
dms., l.c.l., same basis..... lb. .17½- —
tanks, same basis ..... lb. .13½- —
Ethylene glycol monobutyl ether, dms., c.l., dlvd. E lb. .22 - —
dms., l.c.l., dlvd. E..... lb. .23½- —
tanks, dlvd E. ..... lb. .19½- —
Ethylene glycol monoethyl ether, dms., c.l., dlvd. E lb. .21 - —
dms., l.c.l., dlvd. E..... lb. .22½- —
tanks, dlvd. E. ..... lb. .18½- —
Ethylene glycol monoethyl ether acetate, dms., c.l., dlvd. E lb. .19½- —
dms., l.c.l., dlvd. E. ..... lb. .20½- —
tanks, dlvd., E. ..... lb. .17 - —
Ethylene glycol monomethyl ether, dms., c.l., dlvd. E lb. .21 - —
dms., l.c.l., dlvd. E..... lb. .22½- —
tanks, dlvd., E. ..... lb. .18½- —

Ethylene glycol monomethyl ether acetate, dms., c.l., dlvd. E lb. .29 - —
dms., l.c.l., dlvd. E. ..... lb. .29¾- —
tanks, dlvd. E. ..... lb. .27 - —
Ethylene glycol monostearate, triple pressed, dms lb. .33 - .35
Ethylene oxide, dms. c.l., dlvd. E. lb. .21½- —
dms., l.c.l., dlvd. E. ..... lb. .24½- —
tanks, dlvd. E. ..... lb. .15½- —
Ethylene trichloride (see Trichloroethylene)
Ethylenediamine, 85-88%, dms., c.l., dlvd. E., 100% basis lb. .42 - —
dms., l.c.l., dlvd. E., 100% basis. lb. .43 - —
tanks, dlvd. E., 100% basis lb. .40 - —
Ethylvanillin, 100-lb. fib. dms., 500-lb. lots and over lb. 6.75 - —
Eucalyptol, USP, cns., dms. ..... lb. .90 - 1.40
Eucalyptus oil, NF, rectified, 70-75%, dms lb. .51 - —
NF, rectified, 80-85%, dms. ....lb. .57 - .95
Eugenol, USP, dms.....lb. 2.30 - 3.00
Tech., dms. .....lb. 1.45 - —
Euphorbia herb, bls.....lb. .12 - .15

F

F salt, paste, tech., dms., works lb. 2.30 - —
Feldspar, 140-200 mesh, bulk, c.l., works ton.19.50 - —
Feldspar in bags $3 per ton. higher
Fennel oil, sweet, USP, cns....lb. 3.10 - —
Fennel seed, Argentine, bgs. ..lb. .14 - —
French, light, bgs.....lb. .20 - —
Indian, light, bgs.....lb. .20 - —
Rumanian, bgs. .....lb. .14 - —
Yugoslav, light, bgs.....lb. .16½- —
Fenugreek seed, Moroccan, bgs lb. .07½- —
Ferric chloride, anhyd., tech., dms., c.l., works 100 lbs. 7.50 - —
dms. l.c.l., works .... 100 lbs. 8.50 - —
Indust., cryst., bnls., c.l., works. 100 lbs. 5.25 - 6.75
bbls., l.c.l., works .....100 lbs. 5.75 - 7.25
Ferric chloride, 42°Be., photo grade, cbys., c.l., works 100 lbs. 7.25 - 8.25
sewage grade, tanks, frt. equald. 100% basis 100 lbs. 4.00 - —
USP, cryst., dms., t.l., works..lb. .08½- —
Ferric citrate, gran., dms. .....lb. .86 - —
Ferric hypophosphite, NF, dms lb. 3.45 - —
Ferric naphthenate, liq., 6% Fe, dms., frt. alld lb. .28¼- —
Ferric oxalate, tech., gran., 50-lb. dm., f.o.b. works E. lb. .89 - —

Ferric oxides (see iron oxides).
Ferric phosphate, NF, soluble, gran. pearls, cs lb. .73 - .78
Ferric pyrophosphate, NF VII, soluble, gran., pearls, dms. lb. .70 - —
Ferric resinate, 6¾% Fe., dms., ton, lots, frt. alld lb. .36½- —
Ferric stearate, dms., c.l., frt. alld. lb. .39 - —
dms., l.c.l., frt. alld. ..... lb. .40 - .44
Ferric sulfate, partly hydrated, bgs., c.l. works ton.35.25 - —
bgs., l.c.l., works .....ton.36.25 -42.25
bulk, c.l., works .....ton.33.25 - —
Ferric-ammonium citrate, brown, pearls, NF, gran., dms lb. .65 - .68
Green, pearls, USP XII, gran., dms lb. .66 - .69
Ferric-ammonium oxalate, fine gran., dms lb. .27½- .29¼
Ferric-potassium oxalate, fine gran., dms lb. .32½- .34½
Ferric-sodium oxalate, fine gran., dms lb. .27½- .29¼
Ferrous gluconate, USP, 200-lb. dm., frt. equald lb. .96 - —
Ferrous sulfate, gran., bgs., c.l., works ton.34.50 - —
bgs., l.c.l., dlvd. Metropolitan area, 100 lbs 3.35 - 4.25
bbls., c.l., works .....ton.40.00 - —
bulk, c.l., works .....ton.27.00 - —
USP, cryst., bbls., dms. ..... lb .09½- .10
Fir balsam, Canada, bbls. .....gal.32.00 -35.00
Oregon, bbls. .....gal. 3.75 - 4.00
Fir oil, Canada, cns. .....lb. 2.85 - 4.00
Fish oil, refd., alkali, dms.....lb. .1250- .1300
Kettle-bodied, dms.....lb. .1480- .1530
Light-pressed, dms.....lb. .1100- .1150
tanks .....lb. .0950- —
Fishliver oil, high potency, 100,000 A units per gram, dms. 1,000,000 units. .16 - —
200,000 A units per gram., dms. 1,000,000 units. .17½- —
500,000 A units per gram., dms., 1,000,000 units. .18 - —
Fishmeal, dom., menhaden, 60% protein, grd., bgs., Atlantic coast ton.127.00 - —
Fishscrap, dom., menhaden, dried, 60% protein, grd., bgs., Atlantic coast..ton.122.00 - —
Fleaseed (see Psyllium seed).
Folic acid, USP, bots., fib. dms., kilo or more gram. .44 - —
10% feed grade, fib. dms., 3 kilos or more kilo.44.00 - —
Formaldehyde, 37%, inhibited 7 to c.l., dlvd..lb. .0670- —
tanks, dlvd. .....lb. .0405- —
Formaldehyde, 37%, (inhibited, 12 to 15% methanol), USP, dms., c.l., dlvd..lb. .0695- —
tanks, dlvd. .....lb. .0430- —
Formaldehyde, methanol-free (uninhibited), tanks, dlvd. lb. .0375- —
Formic acid, 85%, cbys., c.l., works. lb. .1570- —
cbys., l.c.l., works .....lb. .1620- .1720
90%, cbys., c.l., works.....lb. .1625- —
cbys., l.c.l., works.....lb. .1675- .1775
Fringetree bark, bls.....lb. .70 - —
Fuller's earth, bgs., c.l., Ill. mines, ton.19.00 - —
Fuller's earth, calcined, bgs., c.l., same basis ton.20.00 -21.75
Insecticide grade, dried, powd., bgs., c.l., Ga. or Fla. mines ton.17.50 - —
Oil-bleaching grade, 100-mesh, bgs., c.l., same basis ton.16.30 -17.00
200-mesh, bgs., c.l., same basis, ton.17.50 -18.00
Spent, bgs., c.l., ship't. point ton. 4.50 - 5.00
Fumaric acid, tech., 250-lb. dm., c.l., frt. alld..lb. .27¼- —
dms., l.c.l., same basis .....lb. .28¼- —
Prices of fumaric acid 1½c. per lb. higher west of Denver.
Furfural, dms., c.l., works ..... lb. .13 - —
dms., l.c.l., works.....lb. .14 - —
tanks, dlvd. E. .....lb. .12 - —
tanks, dlvd. W. .....lb. .13 - —
Furfuryl alcohol, cns., works.....lb. .29 - —
dms., l.c.l., Memphis, Tenn. .. lb. .21 - —
tanks, Memphis, Tenn. .....lb. .184 - —
Furfuryl alcohol, dms., c.l., Newark, N. J. lb. .21½- —
dms., l.c.l., Newark, N. J. .....lb. .22½- —
Fusel oil, refd., dms., c.l., dlvd lb. .18 - —
dms., l.c.l., dlvd .....lb. .19½- —
tanks, dlvd. .....lb. .15½- —

G

G salt, bbls., frt. alld., 100% basis.lb. .73 - —
Gallic acid, NF VII, bbls., 1,000-lb. lots lb. 2.00 - —
bbls., smaller lots .....lb. 2.02 - 2.22
Gallic acid, tech., bbls., 1,000-lb. lots lb. 1.78 - —
bbls., smaller lots .....lb. 1.80 - 2.00
Gamma acid, dry grd., bbls., frt. alld. lb. 1.75 - —
Paste, bbls., frt. alld.....lb. 1.70 - —
Gammapicoline (see g-picoline).
Garlic oil, dom., bots. .....oz. 4.75 - 6.05
Imp., bots. .....oz. 4.50 - 5.00
Gaultheria oil (see Wintergreen oil).
Gelatin, edible, pure pork skin, 75 AOAC test, bbls., c.l. ....lb. .53 - —
150 AOAC test, bbls., c.l. ....lb. .62 - —
200 AOAC test, bbls, c.l. ....lb. .68 - —
225 AOAC test, bbls., c.l. ....lb. .70 - —
275 AOAC test, bbls., c.l. ....lb. .78 - —
Gelsemium root, bls. .....lb. .26 - —
Gentian root, bls. .....lb. .24 - —
Grd., bbls., bxs. .....lb. .30 - —
Powd., bbls., bxs.....lb. .30 - —
Geraniol, extra, cns., dms.....lb. 1.90 - 3.00
Soap grade, dms. .....lb. 1.10 - 1.75
Standard, cns., dms. .....lb. 2.00 - 3.40
Geranium oil, Algerian, cns.....lb.19.50 - —
Bourbon, cns. .....lb.20.50 -22.00
Geranium oil, Turkish (see Palmarosa oil).
Geranyl acetate, cns. .....lb. 2.00 - 2.70
Ginger oil, dist., bots.....lb.10.50 -14.00
Ginger oleoresin, NF, from African root, bots lb. 5.00 - 5.60
NF, from Jamaican root, bots. lb. 8.75 -10.25
Ginger root, Cochin, bgs.....lb. .16 - —
Jamaican, No. 3, bgs.....lb. .32 - —
Nigerian, split, bgs.....lb. .13 - —
Sierra Leone, bgs.....lb. .19 - —
Glauber's salt (see Sodium sulfate).
Gluconic acid, tech., 50%, dms., c.l., t.l., frt. alld..lb. .18 - —
dms. l.c.l., frt. alld. .....lb. .20½- —
tanks, frt. alld. .....lb. .13½- —
Glue, bone, extracted, dry bone, 86 jellygrams, bgs. c.l., dlvd. lb. .15 - —
131 jellygrams, bgs., c.l., same basis lb. .17 - —
164 jellygrams, bgs., c.l., same basis lb. .17½- —
191 jellygrams, bgs., c.l., same basis lb. .19 - —
222 jellygrams, bgs., c.l., same basis lb. .22 - —
40 jellygrams, bgs., c.l., same basis lb. .16 - —

Which of these 3 products and services can you use from BECCO?

What's new in Metal Treatments and Etching?

Quite a few things. For example, there's the use of Becco Ammonium Persulfate in etching printed circuits. Seems the material works a lot better—at less cost—and with none of the hazards of the ferric chloride solutions conventionally used.

Then, there's the problem of pickling copper and brass. Lots of pickling agents will do this—only trouble is, you've got to paint or plate or do whatever you're going to do with the metal rather quickly. Or else. Or else it will tarnish or oxidize and you're in the pickle all over again.

Not so with Ammonium Persulfate. Cleans fine. Puts a mild etch on the surface, too, for better paint or plating bonding. More important, perhaps, is the fact that the metal resists retarnishing for up to two weeks. Ideas?

We hope so. What's more, we've got several booklets to help spur you on. They're free—use the coupon below to order.

No. 39 and 51—Surface Treatment of Metals with Peroxygen Compounds.
No. 86—Improving Properties of Copper and Brass Surfaces.
No. 97—Paddle Etching of Printed Circuits with Ammonium Persulfate.
No. 99—Tank Immersion Etching of Printed Circuits with Ammonium Persulfate.
No. 102—Etching of Printed Circuits with Mercury Activated Persulfate.

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We have a good number of such compounds on the shelves. Quite a few others are in development. Still others are merely in our minds, but we can begin drawing them out if you're interested.

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BECCO fmc BECCO fmc BECCO fmc

Glue, bone, extracted, dry bone, 65 jellygrams, bgs., c.l., same basis lb. .16 - —
86 jellygrams, bgs., c.l., same basis lb. .16 - —
115 jellygrams, bgs., c.l., same basis lb. .16½- —
135 jellygrams, bgs., c.l., same basis lb. .17½- —
164 jellygrams, bgs., c.l., same basis lb. .18½- —
180 jellygrams, bgs., c.l., same basis lb. .19½- —
200 jellygrams, bgs., c.l., same basis lb. .20½- —
Bone glue, l.c.l., prices 2c. higher.
Glue, hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .16 - —
95-121, bgs., c.l., dlvd lb. .17 - —
122-149, bgs., c.l., dlvd lb. .18½- —
150-177, bgs., c.l., dlvd lb. .21 - —
178-206, bgs., c.l., dlvd lb. .23½- —
207-236, bgs., c.l., dlvd lb. .26 - —
237-266, bgs., c.l., dlvd lb. .28 - —
267-298, bgs., c.l., dlvd lb. .30 - —
299-330, bgs., c.l., dlvd lb. .32 - —
331-362, bgs., c.l., dlvd lb. .34 - —
363-394, bgs., c.l., dlvd lb. .36 - —
395-427, bgs., c.l., dlvd lb. .38 - —
428-460, bgs., c.l., dlvd lb. .40 - —
461-494, bgs., c.l., dlvd lb. .42 - —
495-529, bgs., c.l., dlvd lb. .44 - —
Hide glue, l.c.l., prices 2c higher.
l-Glutamic acid, 99½%, fib. dms., 100-lb lots, frt. alld lb. 1.80 - —
fib. dms., 25-lb. lots, frt. alld. lb. 1.88 - —
l-Glutamine, bots., 1-9 kilo lots, kilo.150.00 -300.00
50-kilo lots kilo.100.00 - —
500-kilo lots kilo.75.00 - —
Glycerine, dom., nat., crude, saponification, 88%, tanks, dlvd lb. .20½- —
nat., crude, soaplye 80% tanks, dlvd lb. .19½- —
Glycerine, imp., nat., crude, soaplye, 80%, c.i.f. lb. .17 Nom.
Glycerine, nat., refd., USP CP, 99%, dms. c.l. dlvd lb. .29¾- —
dms., l.c.l., dlvd lb. .29¾- —
tanks, dlvd. lb. .27¾- —
Glycerine, nat., refd., USP, 96%, dms., c.l., dlvd lb. .28½- —
dms., l.c.l., dlvd lb. .29 - —
tanks, dlvd lb. .26¾- —
high gravity, dms., c.l., dlvd lb. .29¼- —
dms., l.c.l., dlvd. lb. .29¾- —
tanks, dlvd lb. .27½- —
Syn., dms., c.l., dlvd. lb. .29½- —
dms., l.c.l., dlvd. lb. .30 - —
tanks, dlvd. lb. .27¾- —
Glycine (see Aminoacetic acid).
Glycerol (see Glycerine).
Glycolic acid (see Hydroxyacetic acid).
Glyoxal, 30%, dms., c.l., works lb. .20½- —
dms., l.c.l. works lb. .21¼- —
tanks, works lb. .18 - —
Golden seal root, NF, tested, bls. lb. 3.25 - —
Gramicidin, 1 to 5 kilos, f.o.b. works, gram. 4.70 - —
Grapefruit oil, dms lb. 2.00 - 2.75
Graphite, amorp, powd., bgs., fib. dms., ex whse lb. .06 - .09½
cryst., 88-90%, powd., bgs., fib. dms ex whse lb. .19 - .21½
Graphite, amorph., cryst., 90-92%, ex whse. lb. .21 - .24½
powd., bgs., fib dms., ex whse lb. .29 - .31½
Graphite, flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
Flake, No. 2, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
Grease, white, choice all hog, tanks, dlvd lb. .07¼- .07¾
Yellow, tanks, dlvd lb. .06⅜- .06½
Grease oil, No. 1, dms., c.l. lb. .15¾- —
dms., l.c.l., lb. .16¾- .18¾
extra winter, strained, dms., c.l. lb. .18¼- —
dms., l.c.l. lb. .19¼- .21¼
prime, burning, dms., c.l. lb. .19¾- —
dms., l.c.l. lb. .20¾- .22¾

Green Pigments

Green pigment quotations are listed individually. For example, prices on Green, chrome, may be found in the C's under Chrome green.

Grindelia robusta herb, bls lb. .45 - —
Guaiacol, NF, cryst., dms., tins lb. 2.10 - 2.15
NF, liq., cbys., dms lb. 2.30 - 2.40
Guaiacol carbonate, NF VII, dms. lb. 3.40 - 3.45
Guaiacwood oil, cns lb. .75 - 1.30
Guar gum, food grade, bgs., c.l. lb. .38 - —
bgs., 5,000 lbs. or more lb. .39 - —
Indust., bgs., c.l. lb. .32 - —
Tech grade, bgs. lb. .30 - .33

Gums

Gum quotations are listed individually. For example, prices on Gum, Dammar, may be found in the D's under Dammar gum.

Gypsum, plaster of Paris, 100-lb. paper bgs., trucks, dlvd. New York ton.20.30 - —
Terra alba, dom., 100-lb. paper bgs., trucks, same basis ton.20.00 - —
100-lb. paper bgs., trucks, works, New York ton.17.00 - —
l.c., imp., English, 100-lb. paper bgs., ex dock, New York, ton.55.00 - —
100-lb paper bgs. ex whse. ton.60.00 -62.00

H

H acid, dry, bbls., c.l., frt. alld., 100% basis lb. .90 - —
bbls., l.c.l., same basis lb. .95 - —
Hansa yellow, 10 G, bbls., dlvd. E. of Rockies lb. 2.45 - —
Hansa G yellow, pigment, bbls lb. 2.20 - —
Hawthorn berries, bgs. lb. .18 - .20
Heliotropin, 100-lb. lots, dms. lb. 2.50 - 3.00
Hellebore root, dom., green, bls lb. .70 - .75
Helonias root, bls lb. 1.50 - —
Hemlock oil, cns lb. 2.55 - 3.00
Henbane leaves, bls. lb. .30 - .35
Heptachlor, dms., c.l., t.l., 100% basis, frt. alld lb. .86 - —
Heptane, indust., tanks, Bayonne, N. J gal. .20 - —
tanks, Baytown, Tex. gal. .16¼- —
tanks, Borger, Tex. gal. .16¼- —
tanks, Houston Tex. gal. .16¼- —
Hesperidin, purif., 100-lb. fib. dms., f.o.b., works lb 8.95 - —
Hesperidin methylchalcone, bots., 50-lb lots, works lb.22.50 - —
bots., 5-lb lots, works lb.23.00 - —
bots., 1-lb lots, works lb.23.50 - —
Hexachlorophene, dms. lb. 1.94 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 20,000-lb. lots or more, Perth Amboy or New York lb. .233 - —
bgs., 1,000-19,999-lb. lots, same basis lb. .243 - —
bgs., smaller lots, same basis lb. .253 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .250 - —
fib. dms., smaller lots, same basis lb. .253 - —
USP, bgs., 500 lbs. or more, f.o.b. Fords, N. J., dlvd. New York and Philadelphia lb. .42½- —
bgs., smaller lots, same basis lb. .43½- .48½
Hexane, indust., tanks, Bayonne, N. J gal. .20 - —
tanks, Borger, Tex., dlvd gal. .16 - —
tanks, Houston, Tex. gal. .16 - —
1-Hexanol, dms., c.l., works lb. .35 - —
dms., l.c.l., works lb. .35¾- —
tanks, works lb. .33 - —
Hexyl cinnamic aldehyde, dms lb. 4.00 - 7.50
n-Hexyl methacrylate, dms., c.l., works lb. .75½- —
dms., l.c.l., works lb. .76 - —
Hexyl salicylate, dms. lb. 1.75 - —
Hexylene glycol, dms., c.l., dlvd lb. .17½- —
dms., l.c.l., dlvd lb. .19 - —
tanks, dlvd. lb. .15 - —
Hexylresorcinol, USP, dms., 25-lb. lots or more, dlvd lb.14.00 - —
dms., smaller lots dlvd. lb.14.50 - —
Homatropine hydrobromide, USP, bots oz. 3.50 - —
Homatropine methylbromide, USP, bots oz. 3.25 - —
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton. 6.75 - —
Horehound herb, bls. lb. .16 - .19
Hydrastis (see Goldenseal).
Hydrazine hydrate, 85% ret. dms., works lb. 1.35 - 1.55
100% ret. dms., works lb. 1.60 - 1.90
Hydriodic acid, 1.50 s.g., cbys. lb. 2.92 - —
1.70 s.g. cbys. lb. 3.23 - —
Hydroabietyl alcohol, tech., solid, dms., c.l., dlvd, zone 1 lb. .20¼- —
dms., l.c.l., dlvd, zone 1 lb. .29¾- .30¼
tanks, dlvd, zone 1 lb. .27¼- —
Zone 1 for hydroabietyl alcohol comprises all of continental US except Ariz., Calif., Colo., Idaho, Mont., Nev., N. M., Ore., Utah, Wash. Wyo., and the western part of Texas.
Hydrobromic acid, medicinal, 48%, cbys., frt. equald lb. .48 - .56
Hydrochloric acid, anhyd. (see Hydrogen chloride)
Hydrochloric acid, 18°, cbys., c.l., works 100 lbs. 2.50 - —
cbys., l.c.l., dlvd. Metropolitan area 100 lbs. 2.90 - 3.03
tanks, works, frt. equald ton.28.00 - —
20°, cbys., c.l., works 100 lbs. 2.75 - —
cbys., l.c.l., dlvd. Metropolitan area 100-lbs. 3.15 - —
tanks, works frt. equald ton.30.00 - —
22°, cbys., c.l., works 100 lbs. 3.25 - —
cbys., l.c.l., dlvd. Metropolitan area 100 lbs. 3.65 - —
tanks, works frt. equald ton.35.00 - —
Hydrochloric acid, CP, USP, consumers cbys. extra c.l. works lb. .15¾- —
cbys. l.c.l., same basis lb. .17¼- .17¾
Hydrochloric acid, 5-pint bots., extra cs. c.l. same basis lb. .20¾- —
Hydrocortisone acetate bulk, bots., kilo lots or more gram. 1.30 - 1.75
Hydrocortisone alcohol bulk, bots., kilo lots or more gram. 1.30 - 1.73
Hydrocyanic acid, dilute, NF, 2%, 5-lb bots lb. .40 - —
Hydrofluoric acid, anhyd. (see Hydrogen fluoride)
Hydrofluoric acid, aqueous, 70%, 55-gal. dms., c.l., t.l., dlvd 100 lbs. 19.25 - —
55-gal. dms., l.c.l., t.l.l., dlvd 100 lbs. 20.75 - —
20-gal. dms., c.l., t.l., dlvd 100 lbs. 21.00 - —
20-gal. dms., l.c.l., t.l.l., dlvd 100 lbs. 22.50 - —
Hydrofluoric acid, aqueous, 70%, tanks, works, frt. equald. 100 lbs. 15.50 - —
Delivered prices apply to all states east of Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Washington and Wyoming. In those states add $2.70 per cwt. for drum delivery.
Hydrofluosilicic acid, dms., works, 30% basis lb. .06 - —
Hydrofuramide, dms., fib. ctns., works lb. .30 - .40
50-lb. cyls., l.c.l., works lb. .55 - .60
Hydrogen chloride, anhyd., 50-lb. cyls., l.c.l., works lb. .45 - —
Hydrogen cyanide, liq., 98%, tanks, works lb. .14 - —
Hydrogen fluoride, anhyd., cyls., dlvd. E lb. .30½- .32¼
cyls. dlvd. W. lb. .39 - —
tanks, works lb. .21 - —
Hydrogen peroxide 35%, dms., c.l., dlvd lb. .202 - —
dms., l.c.l., dlvd. lb. .211 - —
tanks, dlvd. lb. .1800 - —

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Consider the many advantages isophthalic polyester resins offer you—greater physical strength, greater retention of strength under and after stress, better durability on exposure to time, water and weather. These performance improvements have been demonstrated time and time again in end products such as boats, automotive bodies and cabs, pipe, luggage, business machine housings and many others.

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Hydroquinone, photo grade, dms lb. 1.10 - 1.13
Tech dms c.l. dlvd lb 82½ —
dms l.c.l. dlvd lb 81½ -
Hydroxyacetic acid, tech., 70%, dms Philadelphia and Chicago lb .11 - —
tanks Belle W Va lb 073 —
Hydroxycitronellal cns lb 4.00 4.80
Hydroxyethyl cellulose, low viscosity grades, 20,000-lb lots or more, f.o.b. shipping point lb. 96 —
2,000 to 19,999-lb lots same basis lb 99 —
150 to 1,999-lb lots same basis lb 1.02 —
Less than 150-lb lots, same basis lb. 1.12 —
Hydroxyethyl cellulose high viscosity grades, 20,000-lb lots or more, f.o.b. shipping point lb. 1.01 —
2,000 to 19,999-lb lots, same basis lb. 1.04 —
Hydroxyethyl cellulose 85 to 1,999-lb lots, same basis lb 1.07 —
Less than 85-lb lots, same basis.
Hyoscine salts (see Scopolamine) lb. 1.17 —
Hyoscyamine hydrobromide, bots oz. 7.00 - —
Hyoscyamine sulfate, bots. oz. 7.00 - —
Hypophosphorous acid, purif. 50% chys., ton lots, f.o.b. works lb. 85 - —
NF, 30%, cbys., all quantities, same basis lb 75 - —

I

Ichthammol, NF, dms. lb. 75 1.05
Indigo (see Dyes coaltar, 1177 indigo, syn)
Indole, CP bots lb 15.75 18.25
Inositol, bots, dlvd lb 5.00 —
dms, dlvd lb 4.50 4.75
Insect flowers (see Pyrethrum)
Iodine, crude, kgs lb .95 —
Resub., USP, dms., f.o.b. works lb. 2.00 - 2.02
Iodochlorohydroquinolin USP dms lb 3.60 —
Iodoform, NF, dms, kgs. lb 4.90 5.00
a-Ionone, cns. lb 3.85 5.00
b-Ionone, cns. lb 3.85 5.85
Ipecac root, whole, bgs lb 8.00 8.50
Powd, bbls, bxs. lb 9.50 10.00
Irish moss, bleached, prime, bls lb. .22 - .25
Iron blue, alkali-resisting, bbls., c.l., dlvd E lb. .57 - —
bbls. l.c.l. ton lots same basis. lb. .58 - —
bbls. smaller lots same basis. lb. .59 - —
Iron blue, dom., reg., bbls., c.l., dlvd E lb. .52 - —
bbls., l.c.l., ton lots, same basis lb. .53 - —
bbls. smaller lots, same basis. lb. .54 - —
Iron blue, imp., British, reg., bbls., c.l., dlvd. E lb. .48 - —
bbls., l.c.l., ton lots, same basis lb. .49 - —
bbls., smaller lots, same basis. lb. .50 - —
Iron blue dlvd. prices 1c. higher for Pacific Coast states:—Wash., Ore., Cal., N. M., Ariz. Mon. Wyo. Utah. Col and Nev.
Iron compounds (see Ferric or Ferrous)
Iron oxide, black, pure, bgs., c.l., works lb. .14¾- —
bgs., l.c.l., works lb. .15 —
Iron oxide, brown, pure, bgs., c.l., works lb. .14¼- —
bgs., l.c.l., works lb. .14½- —
Iron oxide, metallic brown, bgs., works lb. .05¼- —
Iron oxide, Persian Gulf, red, bgs., c.l., works lb. .08¾- —
Iron oxide, red, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y lb. .14¼- —
Iron oxide, red, nat. 75-85% ferric oxide, bgs. c.l., works lb. .06¼- —
bgs. l.c.l., works lb. .06½- —
Iron oxide, Spanish red, bbls., c.l., ex dock lb. .05¾ Nom.
bbls. l.c.l. ex dock lb. .06 Nom.
bbls. l.c.l. ex whse New York, lb. .06½ Nom
Iron oxide, yellow, nat., French type, bgs., c.l., works lb. .06¼- —
Peruvian type bgs. l.c.l lb. .023 .024
Iron oxide, yellow, pure, light lemon shade, bgs. c.l. works lb. .12¼- —
Other shades, same basis lb. .12 —
Isoamyl alcohol, dms. c.l., works, frt. alld. E lb. .27½- —
dms., l.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —
Isoborneol, cns. lb. 1.44 - 1.60
Isobornyl acetate, cns. lb. .48 - .56
Isobornyl formate, dms. lb. 1.20 - —
Isobornyl proprionate, dms. lb. 1.25 - 1.35
Isobutyl acetate, perfume grade, cns lb. .75 1.00
Solvent grade dms., c.l., dlvd. E. of Rockies lb. .15¼- —
dms., l.c.l. same basis lb. .16¾- —
tanks, same basis lb. .12¾- —
Isobutyl alcohol, dms, c.l., dlvd. lb. .16½- —
dms., l.c.l., dlvd lb. .18 - —
tanks, dlvd. lb. .14 - —
Isobutyraldehyde, CP cms., c.l., dlvd lb. .27½- —
dms., l.c.l., dlvd. lb. .28½- —
Isobutyraldehyde, tech., dms., c.l., dlvd lb. .22 - —
dms., l.c.l., dlvd. lb. .23 - —
tanks, dlvd. lb 19½ - —
Isoeugenol, cns. lb. 3.50 - 4.90
Isoniazid, powd., kilo or more kilo. 18.00 —
Isonicotinic acid, 100-lb fib dms., works lb 4.25 - —
Isonicotinic acid hydrazide (see Isoniazid).
Iso-octyl alcohol, dms. c.l., dlvd E. lb. 23½ - —
dms., l.c.l., dlvd E lb. .25 - —
tanks, dlvd E lb. 21 —
Isopentane, coml grade, tanks, f.o.b. Tex refy gal. .15½- —
Isophthalic acid, dms, c.l., works, frt. equald lb. .152 - —
dms., l.c.l. same basis lb. .162 —
Isopropanol (see Isopropyl alcohol).
Isophorone, dms. c.l., works lb. .24½ —
dms., l.c.l. works lb. .25¼ - —
tanks, works lb. .22½- —
Isopropyl acetate, dms. c.l., dlvd. lb. .14 —
dms, l.c.l., same basis lb. .15½- —
tanks, same basis lb. .11½- —
Isopropyl alcohol, refd., 91%, dms., c.l., dlvd gal. .58 —
dms., l.c.l., dlvd gal. .68 - —
tanks, dlvd. lb. .42 - —
Refd., 95%, c.l., dms., dlvd. gal. .60 - —
dms., l.c.l., dlvd gal. .70 - —
tanks dlvd gal. .44 - —
Refd., anhyd., c.l., dlvd. gal. .62 - —
dms., l.c.l., dlvd gal. .72 - —
tanks, dlvd. gal. .46 - —
Isopropyl benzene (see Cumene).
Isopropyl ether, dms., c.l., dlvd lb. .09½- —
dms., l.c.l., dlvd lb. .11 - —
tanks, dlvd lb. .07 - —
Isopropyl-N-(3-chlorophenyl) carbamate (CIPC), tech., dms., c.l., t.l., works lb. 1.00 —
dms., l.c.l., works lb. 1.05 1.25
tanks, works lb. .99 —
Isopropylamine (see Mono, Di, or Tri-).
Isopropyl-N-phenyl carbamate, 450-lb fib. dms., c.l., t.l., works lb. .75 —
450-lb fib. dms., l.c.l., works lb. .80 .90
Isoquinoline, dms., works lb. .65 1.25
Itaconic acid, refd., bgs., c.l., f.o.b. works lb. .53½- —
bgs., l.c.l., same basis lb. .54½- —
Tech., 250-lb. dms., c.l., same basis. lb. .29 - —
dms., l.c.l., same basis lb. .40 - —

J

J acid, paste, bbls., works, 100% basis lb. 2.70 - —
Powd., bbls., same basis lb. 2.75 - —
Jalap root, NF, bls. lb. .90 - —
NF, powd., bbls., bxs. lb. 1.15 - —
Japan wax, cs lb. .27 - .29
Juniper berries, bgs. lb. 15 —
Juniper berry oil, bots. lb 2.90 3.75
Twice rectified bots. lb 3.60 7.00
Juniper tar oil, NF dms lb 42 .60
Juniper wood oil, tech cns. lb. 38 .55

K

Kaolin (see also Clay, China).
Kaolin, NF, powd., fib dms. lb. .10 - .12
NF, colloidal, 50-lb. bgs. lb. .15½- .17½
Karaya gum No. 1, NF, powd. bls lb. .45 - .48
No. 2, powd., bbls lb. .40 - .42
No. 3, powd., bbls lb. .35 - .37
Koch acid, bbls., frt. alld., 100% basis lb. 1.00 - —
Kola nuts, bgs. lb. .10 - —

L

L acid, bbls., works lb. 1.25 - —
Lacquer diluent, petroleum, 150°-240° F b.r., tanks, west coast, ex tax Los Angeles gal. .174 - —
150°-240° F. b.r., tanks, east coast, N. J., N. Y gal. .20 - —
Lacquer diluent, benzene type, tanks, group 3 gal. .1550- —
Toluene type, tanks group 3 gal. .14375- —
tanks, Houston, Tex. gal. .16 - —
Lactic acid, edible, 50%, bbls. dms., c.l., frt. equald lb. .1789- .2740
bbls., dms., 20 or more, frt. equald lb. .1839- .2790
bbls. dms. 5 to 19, frt. equald. lb. .1889- .2840
bbls., dms., 1 to 4, frt. equald. lb. .1938- .2890
80%, bbls., c.l., dms. frt. equald lb. .3039- .4625
bbls., dms., 20 or more, frt. equald lb. .3089- .4675
bbls. dms 5 to 19 frt equald. lb. .3139- .4725
bbls., dms., 1 to 4 frt. equald. lb. .3189- .4775
Lactic acid, plastic grade, 50%, c.l., bbls., works lb. .2740- —
bbls., 20 or more, works lb. .2790- —
bbls., 5 to 19, works lb. .2840- —
bbls., 1 to 4, works lb. .2890- —
80%, bbls., c.l., works lb. .4625- —
bbls., 5 to 19, works lb. .4725- —
bbls., 1 to 4, works lb. .4775- —
Lactic acid, tech., 22%, bbls., c.l., works 100 lbs. 6.60 - —
bbls., l.c.l., works 100 lbs. 7.20 —
44%, bbls., c.l., works 100 lbs. 11.45 - 12.70
bbls., l.c.l., works 100 lbs. 11.85 - 13.10
USP, 85% chys lb. .85 - —
Lactose, crystalline, edible, bgs., 23,000-lb. lots, frt equald lb. .14 - —
bgs., 6,000-lb lots, frt. equald lb. .14½- —
bgs., 2,000-lb. lots, frt. equald lb. .14¾- —
bgs., 200-lb. lots, frt. equald lb. .15¼- —
Edible lactose in fib. dms., ¼c. higher.
Lactose, ferment. grade bgs., c.l., works lb. .08¼- —
USP, fib dms., 30,000-lb. lots, frt. equald lb. .21½- —
fib. dms., 2,000-lb lots, frt. equald lb. .22¼- —
fib. dms., 200-1,800-lb. lots, frt. equald lb 22¾- —
USP lactose in bags ½c. to 1c. lower.

ONE LABEL — *First Grade Only*
ONE PRICE — *That Saves You Money*
. . . and Perfect Performance for *Every* Purpose!

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Pure
Unadulterated
California
LEMON OIL
U.S.P.

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For nearly 30 years, Mutual Citrus Products Co. has been cold-pressing California lemon oil for distribution by others. Now, M.C.P. LEMON OIL is being *prepared and packed* under the M.C.P. label. There is only *one label* and *one* quality — *the highest* — for M.C.P. LEMON OIL. Yet, M.C.P. LEMON OIL costs you *less* . . . while providing a product that is unsurpassed for flavor, purity, and dependability . . . for *every* purpose.

Produced and Packed by
MUTUAL CITRUS PRODUCTS COMPANY
Since 1928 Growers and Processors of Citrus Products

Distributed by

MUTUAL CITRUS PRODUCTS CO.
424 South Atchison Street, Anaheim, Calif.

R. D. WEBB & CO., INC.
137 Boston Post Road, Cos Cob, Conn.

Lactose, USP, spray dried, bgs., t.l., frt. equald lb. .18½- —
bgs., t.t.l., frt. equald .... lb. .19 - .19¾
Lady's slipper root, bls. .... lb. 3.50 - 3.75
Lake C red toner, alizarine, bbls., works lb. 1.25 - —
Lamp black, bgs., c.l., works .... lb. .16 - .45
Lanolin, cosmetic, dms., works .... lb. .27 - .29
USP, anhyd., dms., works .... lb. .24 - .26
hydrous, dms., works .... lb. .23 - .25
Lard, cash, dms. .... lb. .0825- —
Lard oil (see Grease oil).
Larkspur seed, ogs. .... lb. .35 - —
Laurel leaf oil, dms., cns. .... lb. 9.75 -12.50
Laurent's acid, bbls. .... lb. .60 - —
Laurie acid, pure, dms .... lb. .38½- .41
tanks .... lb. .36 - —
Lauryl alcohol, bots. .... lb. 2.00 - 2.50
n-Lauryl methacrylate, dms., c.l., t.l. works lb. .65½- —
dms., t.t.l., works .... lb. .66 - —
Lavandin oil, 22-24%, dms. .... lb. 1.25 - 2.00
Abrial, dms. .... lb. 1.00 - 1.50
Lavender flowers, medium, bls .... lb. .55 - .60
Ord., bls. .... lb. .20 - .25
Select., bls. .... lb. .90 - 1.00
Lavender flower oil, USP, French, 35-37% ester, cns .... lb. 2.75 - 6.75
40-42% ester, cns. .... lb. 5.00 - 7.75
Spike, Spanish, cns. .... lb. 2.20 - 3.00
Lead acetate, NF, cryst., gran., powd lb. .34½- —
White, cryst., bbls. .... lb. .25½- —
gran., bbls. .... lb. .26½- —
powd., bbls. .... lb. .26½- —
Lead arsenate, acid powder, dealers, 3-50 lb. bgs or any quantity, frt. alld, on $150 or more .... lb. .30½- —
1-lb. bgs., same basis .... lb. .47 - —
Lead, blue, basic sulfate, bbls., c.l., shipt point, frt. alld. .... lb. .17 - —
bbls., l.c.l., same basis .... lb. .18 - —
Lead carbonate (see Lead, white, basic carbonate)
Lead chloride, dms. .... lb. .52 - —
Lead iodide NF V jars .... lb. 3.82 - —
Lead linoleate, fused, 26% Pb, dms. lb. .38 - —
Lead metal, prime, pigs, New York. lb. .12 - —
St. Louis .... lb. .1130- —
Lead monosilicate, bgs., c.l., works, frt. equald lb. .143 - —
bgs., l.c.l., same basis .... lb. .153 - —
Lead naphthenate, liq., 16% Pb, dms., dlvd lb. .19½- —
24% Pb, dms., dlvd. .... lb. .24¼- —
Solid, 37% Pb, dms., dlvd. .... lb. .31¾- —
Lead nitrate, bbls. .... lb. .24½- .26¾
Lead orthosilicate-gel, 50-60% PbO, dms., works lb. .29¾- .34¼
Lead peroxide, tech. powd., bbls lb. .45 - .50
Lead phthalate, dibasic, dms., works, lb. .41 - —
Lead, red., 95% Pb_3O_4, or less bbls., c.l., works, frt. equald .. lb. .14¼- —
bbls., l.c.l., same basis .... lb. .15¼- —
97% Pb_3O_4, bbls., c.l., same basis, lb. .1445- —
bbls., l.c.l., same basis .... lb. .1545- —
98% Pb_3O_4, bbls., c.l., same basis, lb. .1460- —
bbls., l.c.l., same basis .... lb. .1560- —
Lead resinate, precip. 23% Pb, dms., ton lots, dlvd .. lb. .40¼- —
Lead salicylate, normal, dms., works, lb. .46 - —
Lead silicate (see Lead white basic silicate).
Lead silico-chromate, bgs., c.l., f.o.b. mfg. point, frt. alld. lb. .19½- —
bgs., l.c.l., same basis .... lb. .20½- —
Lead sulfate (see Lead blue basic sulfate).
Lead tallate, liq., 16% Pb, dms. lb. .15 - —
24% Pb, dms. .... lb. .21¼- —
Solid, 30% Pb, dms. .... lb. .23¾- —
Lead, white, basic carbonate, bgs., c.l., shipt. pt., frt. alld. lb. .17 - —
bgs., l.c.l., same basis .... lb. .18 - —
Lead, white, basic silicate, bgs., c.l., shipt. pt. frt. alld. lb. .15¾- —
bgs., l.c.l., same basis .... lb. .16¾- —
Lead, white, basic sulfate, bgs., c.l., shipt. pt., frt. alld. lb. .16¼- —
bgs., l.c.l., same basis .... lb. .17¼- —
Lecithin, edible, tech., bleached, non-ret. dms., c.l., works, lb. .14 - .15
non-ret. dms., l.c.l., same basis lb. .15 - .16
unbleached, non-ret. dms., c.l., same basis lb. .13 - .14
non-ret. dms., l.c.l., same basis lb. .14 - .15

Lemon bioflavonoid complex, fib. dms., 25-lb. lots, works lb. 9.00 - —
Lemon oil, USP, Calif., cns., dms. lb. 3.10 - 3.50
Messina, cns. .... lb. 4.25 - 9.00
Lemongrass oil, cns. dms. .... lb. .93 - 1.25
dl-Leucine, dms., works .... lb. 12.25 -15.00
Licorice root, gran., bls. .... lb. .13 - —
Powd., bls. .... lb. .15 - .16
Whole, bls. .... lb. .09 - .10
Lignaloe wood oil, Mexican, cns lb. 2.75 - 3.50
Lignosulfonate (see under ammonium or sodium lignin sulfonate).
Lime, chemical (quicklime), bulk, c.l., 50,000 lbs., works, E. ton. 14.25 - —
Chemical, hydrated, bgs., c.l., same basis ton. 17.25 - —
Chemical, spray, bgs., c.l., same basis ton. 18.25 - —
For New York delivery, add $6.29 freight charge.
Lime oil, dist., Mexican, cns .... lb. 6.25 - 6.75
West Indian, cns. .... lb. 6.50 - 7.80
Expressed, West Indian, cns lb. 7.75 - 8.75
Lime salts (see Calcium).
Lime-ammonium nitrogen, 20.5% N (see Ammonium nitrate with dolomite).
Linalool, ex bois de rose oil, dms. lb. 3.70 - 4.35
Syn., 98-100%, dms., works .. lb. 3.70 - —
Linalyl acetate, ex bois de rose, 90-92%, dms lb. 3.80 - 4.00
96-98%, dms. .... lb. 4.10 - 4.80
Syn., 98-100%, dms., works .. lb. 3.70 - —
Lindane, 25% formulation, to distributors dms., frt. alld lb. 1.35 - 1.50
Lindane, tech., to formulators, dms., 1-2,000 lbs., dlvd lb. 2.40 - —
Linden flowers, with leaves, bls lb. .25 - —
Without leaves, bls. .... lb. .35 - .40
Linseed meal, expeller, 32% bulk, Minneapolis mills ton. Nominal
Extracted, 34% bulk, same basis. ton. 60.50 - —
Linseed oil, raw, dms., c.l., New York lb. .1600- —
dms., l.c.l., New York .... lb. .17 - .1750
tanks, f.o.b. Minneapolis .. lb. .1250- —
tanks, New York .... lb. .1400- —
tankwagon, New York .... lb. .1450- .1460
Boiled linseed oil, .006c. per lb. higher.
Linseed oil acids, dist., dms .... lb. .1900- —
Water-white, dms .... lb. .2200- —
Litharge, coml., powd., bbls., c.l., works, frt. equald .. lb. .13¾- —
bbls., l.c.l., same basis .... lb. .14¾- —
Lithium aluminum hydride, lump, dms., works .. lb. 33.00 -39.00

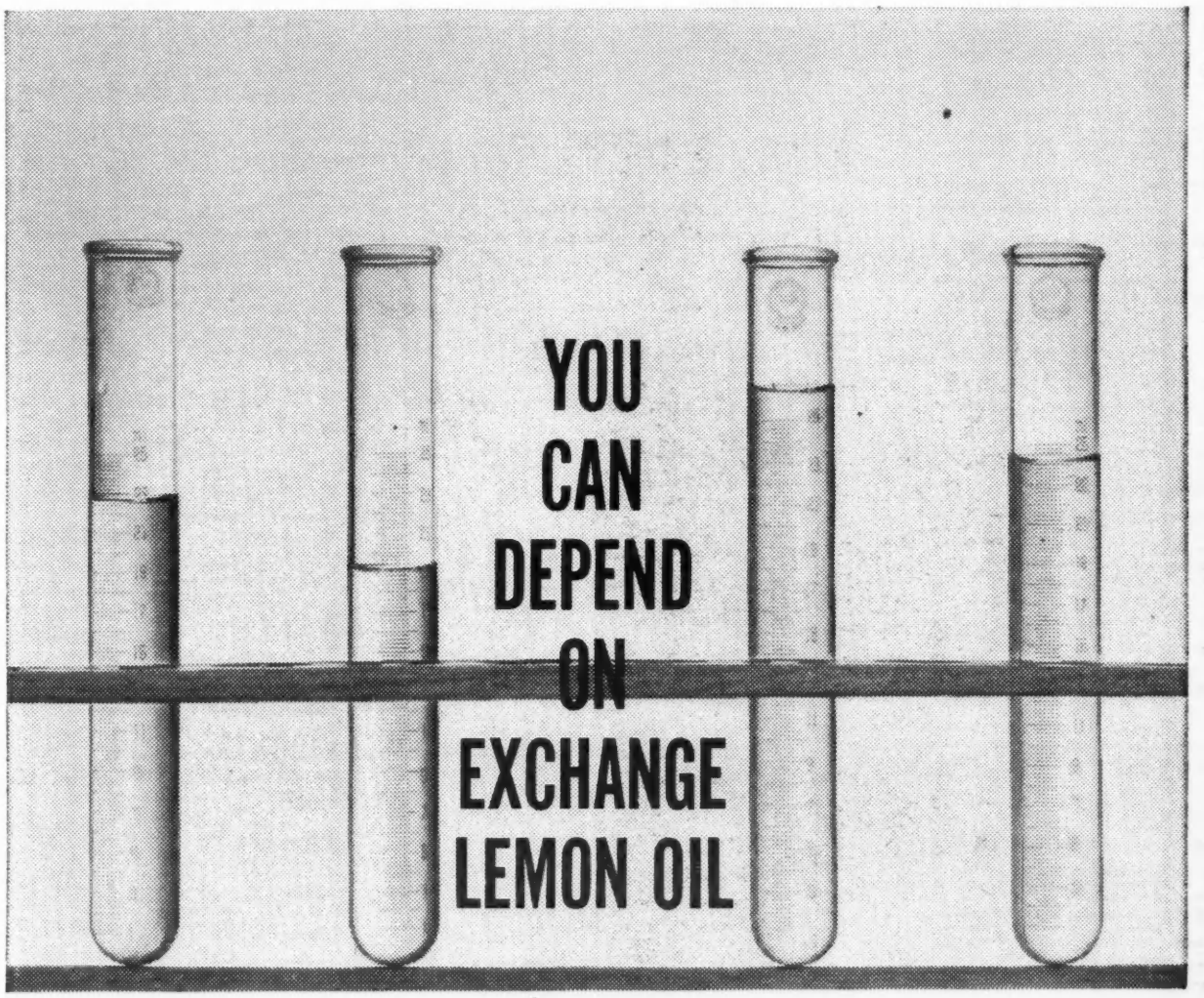
Lithium benzoate, dms. .... lb. 1.65 - 1.67
Lithium bromide, NF, gran., works, frt. equald lb. 2.60 - —
Lithium carbonate, NF, dms., c.l., t.l., dlvd lb. 1.29½- —
dms., ton lots to t.l., dlvd lb. 1.30 - 1.30½
Tech., dms., c.l., t.l., frt alld lb. .67 - —
dms., ton lots, same basis .. lb. .73 - —
dms., smaller lots, same basis, lb. .79 - —
Lithium chloride, CP, anhyd., dms., ton lots lb. 1.23½- —
Tech., anhyd., dms., c.l., t.l., dlvd, or works, frt. alld lb. .87 - —
dms., l.c.l., same basis .. lb. .88 - .92
Lithium citrate, NF, dms., ton lots, lb. 1.50 - —
Lithium fluoride, dms., 20,000-lb. lots, dlvd lb. 2.15 - —
bbls., ton lots and more, dlvd. lb. 2.18½- —
bbls., less ton lots, dlvd. .... lb. 2.23½- —
Lithium hydride, powd., dms., 500-lb. lots or more, works lb. 9.50 - —
Lithium hydroxide, monohydrate, dms., c.l., t.l., frt. alld lb. .72 - —
dms., l.c.l., frt. alld .... lb. .73 - —
Lithium manganite, dms., works lb. .95 - 1.03
Lithium nitrate, tech., dms., 100-lb lots lb. 1.15 - 1.23
Lithium salicylate, dms. .... lb. 1.60 - 1.70
Lithium silicate, dms., works .. lb. 1.10 - 1.20
Lithium stearate, dms., c.l., works, lb. .47½- —
dms., ton lots, works .... lb. .48½- —
dms., less-ton lots, works .... lb. .53½- —
Lithium sulfate, dms., 100-lb. lots, lb. 1.15 - 1.23
Lithium titanate, dms., works lb. 1.15 - 1.25
Lithol red toner, barium, bbls., works lb. .98 - —
Lithol-rubine red toner, pure bbls., works lb. 1.50 - —
Resinated, bbls., works .... lb. 1.47 - —

Lithopone, ord., bgs., c.l., dlvd. E. lb. .08¾- —
bgs., t.c.l., dlvd. E. .... lb. .09½- —
Lithopone, titanated (high-strength), bgs., c.l., dlvd lb. .11 - —
bgs., t.c.l., dlvd. .... lb. .12 - —
Lobelia herb bls .... lb. .55 - —
Lobeline sulfate, bots., 50-oz. lots, works .. oz. 30.00 - —
Locust bean gum, powd., bgs .... lb. .38 - .40
Lycopodium, cs. .... lb. 4.00 - —
l-Lysine monohydrochloride, 25 dms. or more .. lb. 4.95 - —

M

Mace, Siauw, No. 1, bls .... lb. 2.20 - —
No. 2, whole, bls .... lb. 1.65 - —
siftings, bls. .... lb. 1.60 - —
Mace oil, dist., cns., dms .... lb. 9.75 -12.25
Magnesia, calcined, tech. bgs., ctns., frt. equald lb. .25¾- .26½
Tech., syn., rubber grade, light, bgs., c.l., frt. equald lb. .28¾- .30
rubber grade, extra light, bgs., c.l., frt. equald lb. .28 - —
bgs., t.c.l., frt. equald lb. .28¾- —
Above prices are quoted f.o.b. works, freight equald, with Metropolitan New York and competitive producing points
Magnesia, calcined, USP, light bgs. lb. .36½- .37½
heavy, fib. dms .... lb. .45 - .52

Magnesite, chemical grade, calcined, powd., bgs., c.l., works, frt. equald ton. 86.25 - —
Magnesite, chemical grade, dead-burnt, standard grain, bulk, c.l., Chawelah, Wash ton. 46.00 - —
Magnesium bromide, cs., jars .. lb. .95 1.00
Magnesium carbonate, tech., bgs., c.l., frt. equald lb. .11 - —
bgs., t.l., frt. equald .... lb. .11½- —
bgs., l.c.l., frt. equald .... lb. .13½- .14
Magnesium carbonate, USP, bgs., c.l., frt. equald lb. .13½- —
bgs., t.l., frt. equald .... lb. .14 - —
bgs., l.c.l., frt. equald .... lb. .15 .16
Above prices are quoted f.o.b. works, freight equald, with Metropolitan New York and competitive producing points.
Magnesium chloride, anhyd., 92% flake or pebble, dms., c.l., works lb. .12¾- —
dms., l.c.l., works .... lb. .14 - .15
Magnesium chloride, hydrous, 99% flake, bgs., c.l., works ton. 55.00 —
bgs., l.c.l., works .... ton. 65.00 -80.00
Magnesium gluconate, 100-lb. dm., f.o.b. works E .. lb. 1.42 - —
Magnesium hydroxide, NF, powd., dms., 500-lbs. or more, f.o.b., works lb. .24½- .25½
Magnesium lauryl sulfate, dms., c.l., frt. alld lb. .22½- —
dms., t.t.l., frt. alld .... lb. .23½- —
tanks, frt. alld .... lb. .21½- —



always pure
absolutely uniform
authentic U.S.P. oil

WHEN JUST AN OUNCE OR TWO of lemon oil can glorify—or ruin—a hundred-pound batch of your product, why gamble?

Use only Exchange Brand Lemon Oil, U.S.P., California Cold-pressed.

Made exclusively from their own California and Arizona lemons by the Sunkist Growers—the people who know citrus best—Exchange Lemon Oil is carefully cold-pressed, skillfully bulk-blended for matchless uniformity.

Sunkist Growers pack and seal every container—from the 7-pound tin to the 395-pound drum—in their own plant, and guarantee every drop to be pure U.S.P. quality oil—unadulterated, unsophisticated. Always look for the word "Exchange" on the tamper-proof container seal.

Exchange

Sunkist Growers

PRODUCTS SALES DEPARTMENT • ONTARIO, CALIFORNIA

Distributed in the U.S. by: Dodge & Olcott, Inc., 180 Varick Street, New York 14, N.Y. / Fritzsche Brothers, Inc., 76 Ninth Avenue, New York 11, N.Y. / Ungerer & Company, 161 Avenue of the Americas, New York 13, N.Y.

Magnesium metal, 99.8%, ingots, 10,000-lb. lots or more, works lb. .36 - —
pigs, 10,000-lb. lots or more, works lb. .35¼ - —
sticks, cs. works frt. alld. en carlots lb. .59 - —
Magnesium nitrate, cryst., dms., works lb. .29 - —
Magnesium oxide (see Magnesia, calcined).
Magnesium phosphate tribasic, NF, bbls lb. .75 - —
Magnesium silicate (see Talc)
Magnesium silicofluoride, dms., works lb. .10½ - .12
Magnesium sulfate tech., bgs., c.l., works 100 lbs. 2.15 - —
bgs., l.c.l., works 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l. works, 100 lbs. 2.35 - —
bgs, l.c.l., 5,000 lbs., 1 withdrawal 100 lbs. 3.10 - —
bgs, smaller lots 100 lbs 3.35 - —
Magnesium trisilicate, USP, fib, dms., 5,000-lb lots lb. .38 - —
fib dms, 1,000-lb lots lb. .40 - —
fib dms., 100-lb lots lb. .45 - —
Bulky and super grades of magnesium trisilicate 7c. per lb. higher.
Malachite green straight, PTMA, bbls, works lb. 5.30 - —
Malathion, dms., c.l. works lb. .89 - —
dms., l.c.l., works lb. .92 - 1.01
Maleic acid, cryst. powd., dms lb. .37¼ —
Maleic anhydride, dms., c.l., dlvd. E. of Rockies lb. .28¾ —
dms., l.c.l., dlvd. E of Rockies lb. .29¾ - —
tanks, dlvd E of Rockies lb. .27¾ - —
Prices on maleic anhydride W of Rockies, 1½c per lb higher
Malic acid tech., dms lb. .50 - —
Mandelic acid, NF, dms., 1,000-lb. lots lb. 2.35 - —
dms., smaller lots lb. 2.40 - 2.50
Mandrake root, bls lb. .40 - .48
Manganese acetate dms, dlvd lb. .35 - —
Manganese borate tech, fib dms, lb. .23½ —
Manganese carbonate, chemical grade, 46% Mn, bgs., 20,000-lb lots and more, works lb. .11 - .16
Manganese chloride, CP, anhyd., dms., 20,000-lb lots, works lb. .21¾ - —
smaller lots, works lb. .23½ - —
Manganese dioxide, African, 83-87%, 40,000 to 99,999-lb. lots, burlap paper lined bgs., gross for net works ton. 148.00 - —
40,000 to 99,999-lb lots, paper bgs., same basis ton. 144.50 - —
40,000 to 99,999-lb lots, dms, same basis ton. 152.50 - —
Prices for manganese dioxide in 10,000 to 40,000-lb lots $3 per ton higher.
Manganese gluconate, dms. lb. 1.84 - —
Manganese hydrate, dms., dlvd lb. .35 - —
Manganese hypophosphite, NF dms. lb. 3.52 —
Manganese linoleate liq. 4.35% Mn, dms lb. .35¾ - —
Solid, precip., 8.2% Mn, bbls lb. .41¼ - —
Manganese metal, electrolytic, dms., c.l., dlvd E lb. .34 - —
dms, ton lots, dlvd E. lb. .36 - —
dms., smaller lots, dlvd. E. lb. .38 - —
Manganese naphthenate, liq., 6% Mn, dms, frt alld lb. .29¾ - —
Manganese resinate, fused, 3½% Mn, dms lb. .25¼ - —
Precip., 6½ 7% Mn dms lb. .33 - —
Manganese sulfate, fertilizer grade, 65% $MnSO_4$, bgs., c.l., dlvd S E ton 97.50 - —
bgs., l.c.l., dlvd S. E. ton. 104.50 - —
Manganese tallate, 6%, dms. lb. .26 - —
Manila copal gum, C, bgs. lb. .35 - .39
DBB, bgs lb. .25 - .28
DK, bgs. lb. No stocks.
DK, dust bgs. lb. .14 Nom.
MA, soft, bgs. lb. .20 - 24
WS, bgs. lb. No stocks.
Mannitol, com'l fib dms., ton lots, works lb. .60 —
fib dms to ton lots, works lb. .62 —
fib dms., single dm., works lb. .65 —
Marine pitch, dms. lb. .04¼ - .05
MBTS (see Mercaptobenzothiazyl disulfide)
MBT (see 2-Mercaptobenzothiazole).
Melamine, bgs., c.l., works lb. .27½ - —
bgs., l.c.l., works lb. .29 - —
Menadione USP bots. gram. .044 .05
Menhaden oil, crude, tanks, works, Atl. & Gulf lb. .07¼ - —
Menthol, nat. USP Brazilian, cs. lb. 6.25 - 6.40
Japanese, cs. lb. 7.00 7.18
Syn., USP racemic cns lb. 4.50 - —
2-Mercaptobenzothiazole, bgs., fib. dms. ton lots, works, frt. alld lb. .44 - —
bgs. fib dms less ton lots, same basis lb. .46 - —
Mercaptobenzothiazyl disulfide, bgs., fib dms. ton lots, works, frt. alld lb. .54 - —
bgs. fib dms. less ton lots, same basis lb. .56 - —
Mercuric chloride, NF cryst., dms., 50-lb lots or more lb 4.98 - —
USP, gran. or powd., 50-lb. dm., 100 lbs., f.o.b. works lb. 4.78 - —
Mercuric cyanide, NF VIII, powd., fib dms lb 6.84 - —
Mercuric iodide red, NF, 100-lb. dm., f.o.b. works lb. 7.72 - —
Mercuric oxide, red., NF IX, 50-lb. dm., 100 lbs., f.o.b. works lb. 5.97 - —
tech., 50-lb. dm., 100 lbs., same basis lb. 5.77 - —
Mercuric oxide yellow, NF, 50-lb. dm., 100 lbs., same basis lb. 6.14 - —
tech., bbls. 1,000-lb lots lb 5.58 - —
bbls. smaller lots lb 5.60 - —
Mercurous chloride (see Calomel)
Mercurous iodide yellow, NF, 100-lb. dm., f.o.b. works lb. 8.22 - —
Mercury, ammoniated (see White precipitate, USP XV)
Mercury metal, 76 lbs. per flask net-flask. 239.00 - 241.00
Mesityl oxide, dms., c.l., dlvd lb 15 -
dms., l.c.l., dlvd. lb. 16½ —
tanks, dlvd. lb 12½ —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Chloroaniline).
Metanilic acid, dms., works lb 57 - 75
Metanitroparatoluidine (see m-Nitro-toluidine).
Metanitroaniline (see m-Nitroaniline).
Metaphenylenediamine (see m-Phenylenediamine).
Metatoluidine (see m-Toluidine).
Metatolylenediamine (see 2,4-tolylenediamine).
Methacrylic acid, glacial, 98%, dms., truckloads, works lb. .47 —
dms., smaller lots, works lb. .47½ - .80
tanks, works lb. .45 —
Methanol, nat., denaturing grade, tanks, frt. alld gal. .85 —
Syn., zone 1, dms., c.l or t.l. min., dlvd gal. .51½ - —
dms., l.c.l., dlvd gal. .61½ - —
tankwagon, 2,000-4,000 gal. lots, dlvd Metropolitan area gal. .35 - —
tankwagon, 4,000 gal. min., dlvd gal. .30 - —
tankwagon, 4,000 gal. min., f.o.b. terminal gal. .29 - —
Methanol, syn., zone 2, dms., c.l., or t.l., min., frt. alld. or dlvd. gal. .55½ - —
dms., l.c.l., works gal. .65½ - —
tankwagon, 2,000-4,000 gal. lots, min., dlvd., Metropolitan area gal. .39 - —
tanks, 4,000 gal. min. dlvd. gal. .34 - —
Synthetic methanol zones are: Zone 1 is all continental US E of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of US west of above state boundaries comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
Methapyrilene fumarate, 100-999 lbs., dms., f.o.b. works, frt. equald lb. 21.75 - —
Methapyrilene hydrochloride, 100-999 lbs., dms., f.o.b. works, frt. equald lb. 27.25 - —
Methenamine (see Hexamethylene tetramine)
Methionine hydroxy-analogue, (calcium salt) 90% min., dms., c.l., frt alld lb 1.25 - —
dms., l.t.l., same basis lb 1.29 - —
dl-Methionine, fib, dms., frt alld, 50-lb or more lb 3.50 - —
Feed grade 98%, fib dms., same basis lb 1.55 - —
Methyoxychlor, 50% wettable powder, dealers, dms., cs.,
Methyl abietate non-ret dms., c.l., dlvd zone 1 lb. .21½ - —
non-ret dms. l.c.l., same basis lb. .22 - .22½
Methyl abietate, hydrogenated, non-ret dms., c.l., dlvd zone 1 lb. .23½ - —
non-ret dms., l.c.l., same basis, lb 24 - .24½
Zone 1 includes New England and Middle Atlantic states, Va., W Va., N C., Ohio., Ky., Mich., Ind., Ill., Wis., St Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S C. and Tenn
Methyl acetone, nat., dms., l.c.l., E. of Miss., frt alld gal. 62½ - —
Syn., dms. c.l., frt alld E. gal. 66 - —
dms., l.c.l., frt alld E. gal. 76 - —
tanks, frt. alld. E gal 51 - —
Synthetic methyl acetone E territory comprises all states East of and including Colo., Mont., N Mex. and Wyo. West territory is made up of all states west of these four.
Methyl acrylate, dms., c.l., t.l. dlvd. lb. .39 - —
dms., l.t.l., dlvd. lb 40 - —
tanks, dlvd. lb 37 - —
Methyl alcohol (see Methanol)
Methyl amyl acetate, dms., c.l., dlvd. E lb. .17 - —
dms., l.c.l., dlvd. E. lb. .18½ - —
tanks, dlvd E. lb. .14½ - —
Methylamyl alcohol, dms., c.l., dlvd. lb. .17 - —
dms., l.c.l., dlvd. lb. .18½ - —
tanks, dlvd. lb. .14½ - —
Methylamyl ketone, dms works lb 1.05 - —
N-Methylaniline, tech., tanks, frt. alld. lb. .68 - —
Methyl anthranilate, cns. lb 2.25 - 2.75
Methyl benzoate, cns., dms lb. .65 - .75
Methyl bromide, service organization prices, 40 to 375-lb. cyls., large lots, frt allo lb. .62 - .65
Methyl cellulose, special vis. (1,500-4,000 cps.) 50-lb bgs., c.l., works lb. .82 - —
Methyl cellulose, special vis., (1,500-4,000 cps.), 50-lb. bgs., 2,000-lb. lots and more, same basis lb. .89 - —
50-lb. bgs. smaller lots, frt. alld. on 100 lbs lb. 1.05 - —
Methyl cellulose, standard vis. (15,-400 cps.), 50-lb. bgs., c.l., frt. alld lb. .69 - —
50-lb. bgs., 2,000-lb. lots and more, same basis lb. .76 - —
50-lb. bgs., smaller lots, frt. alld, on 100-lbs lb. .79 - .89
Methyl chloride, indust. cyls., frt. equald lb. .22¼ - —
tanks, multi-unit, same basis. lb. .16¼ - —
tanks, single unit, same basis. lb. .12¾ - —
Refrigerator mfrs., cyls., dlvd lb. .48¾ - —
other consumers or service men, cyls., dlvd lb. .67¾ - —
Methyl chloroform (see 1,1,1-Trichloroethane).
Methyl cinnamate, cns. lb. 1.55 - 1.80
Methyl ethyl ketone, dms., c.l., dlvd lb. .15 - —
dms., l.c.l., dlvd lb. .16½ - —
tanks, dlvd. lb. .12½ - —
2-Methyl-5-ethyl pyridine, dms., c.l., works lb. .45 - —
dms., l.c.l., works lb. .45¾ - —
tanks, works lb. .43 - —
Methyl formate, refd., dms. lb. .35 - .40
Tech., non-ret. dms., any quantity, works lb. .10 - —
tanks, works lb. .07 - —
a-D Methyl glucoside, tech., 100-lb. multiwall paper bgs., c.l., works lb. .21 - —
100-lb. multiwall paper bgs., t.l., min. 23,000 lbs., works lb. .21½ - —
100-lb. multiwall paper bgs., l.t.l., works lb. .23 - —
Methyl heptin carbonate, bots lb 28.00 - 31.00
Methyl p-hydroxybenzoate, fib, dms. lb 1.90 - 2.00
Methyl ionone, standard, cns, dms. lb. 3.40 - 3.85
Methyl isobutyl carbinol (see Methyl amyl alcohol).
Methyl isobutyl ketone, dms., c.l., dlvd lb. .17 - —
dms., l.c.l., dlvd. lb. .18½ - —
tanks, dlvd lb. .14½ - —
Methyl methacrylate, dms., c.l., t.l., frt. equald. with Belle, W Va. lb. .31 - —
dms., smaller lots, same basis lb. .31½ - —
tanks, same basis lb. .29 - —
Methyl naphthyl ketone, cryst., cns lb. 2.45 - 4.30
Methyl parahydroxybenzoate (see Methyl p-Hydroxybenzoate)
Methyl parathion tech., 80%, dms., frt. alld. E lb. .84 - —
Methyl parathion prices 2c. per lb. higher in West.
Methyl roseaniline chloride, NF, 5-lb. fib. dms. lb. 6.90 - —
Methyl salicylate, dms., t.l., frt. alld lb. .60¼ - —
dms., l.c.l., same basis lb. .62½ - .67½
Methyl testosterone USP, 100-gram bots gram. No Prices.
Methyl violet toner, molybdated, PMA, bbls., dlvd. E. of Rockies lb. 2.80 - —
Methyl violet toner, tungstated, PTMA, bbls., same basis. lb. 4.35 - —
Methyl violet prices 1c higher W. of Rockies.
Methylene blue, fib dms., 100-lb. lots, frt. adjusted lb. 3.25 - —
Methylene chloride, tech., straight or assorted, dms., c.l., or t.l., dlvd lb. .13½ - —
dms., l.c.l., l.t.l., dlvd lb. .15¾ - —
tanks, 4,000-gal. min., dlvd. lb. .12¼ - —
tanktrucks, 1,000-gal. min., dlvd lb. .13¼ - —
b-Methylnaphthalene, 32°C., m.p., dms., works lb. .90 —
Methylpentanediol (see Hexylene glycol).
Methylphenylpyrazolone (see 1-phenyl-3-methylpyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs c.l., works lb. .04 - —
roofing, 20 to 80 mesh works lb. .03 - —
Mica, wet-grd., biotite bgs., c.l., works, frt alld E lb. .06½ - —
bgs. l.c.l. ex whse. lb. .07¼ - —
paint or lacq., bgs., c.l., 325 mesh works frt alld E. lb. .08¼ - —
bgs., l.c.l. ex-whse. or freight alld E lb. .09 - —
rubber, bgs., c.l., works, frt. alld E lb. .08 - —
bgs., l.c.l., ex-whse or frt. alld E lb. .08¾ - —
wallpaper bgs. c.l. works, frt. alld. E lb. .08¾ - —
bgs ex-whse or frt. alld E. lb. .09 - —
white, 5-10 microns, bgs., c.l., works, frt. alld. E lb. .08¼ - —
l.c.l., ex-whse., or trt. alld E. lb. .09 —
Mica, wet-grd. W. of Miss. ½c. higher; W. of Rockies 1c higher.
Microcrystalline wax, petroleum, coating grades, tankcars, works lb. .10 - .11
Microcrystalline wax, petroleum, laminating grades, tankcars, works lb. .11 - .12
Mineral black, bgs., works lb. .0160 - .0673
Mineral oil, white, tech., 50-65 vis., non-ret. dms., c.l., f.o.b. refy gal. .62 - —
non-ret. dms., t.c.l., same basis gal. .67 - —
tankcars refy gal. .46 - —
65-75 vis., non-ret. dms., c.l., same basis gal. .62 - —
tankcars, refy gal. .46 - —
80-90 vis., non-ret. dms., c.l., same basis gal. .63 - —
non-ret. dms., t.c.l., same basis gal. .68 - —
tankcars, refy gal. .47 - —
135-138 vis., non-ret. dms., c.l., same basis gal. .69 - —
non-ret. dms., t.c.l., same basis gal. .74 - —
tankcars, refy gal. .53 - —
145-155 vis., non-ret. dms., c.l., same basis gal. .75 - —
non-ret. dms., t.c.l., same basis gal. .80 - —
tankcars, refy gal. .59 - —
USP, 180-190 vis., non-ret. dms., c.l., same basis gal. .77 - —
non-ret. dms., t.c.l., same basis gal. .82 - —
tankcars, refy. gal. .61 - —
200-210 vis., non-ret. dms., c.l., f.o.b. New York gal. .84 - —
200-210 vis., non-ret. dms., t.c.l., same basis gal. .89 - —
tankcars, refy gal. .63 - —
300-350 vis., non-ret dms., c.l., f.o.b. New York gal. .84½ - —
non-ret. dms., t.c.l., same basis gal. .89½ - —
tankcars, refy. gal. .68½ - —
Mineral orange, American, bbls., c.l., works lb. .1560 - —
bbls., l.c.l., same basis lb. .1660 - —
Mineral spirits, petroleum, odorless, tanks, refy Watson, Calif. gal. .25 - —
tanks, Borger, Tex. gal. .25 - —
Houston, Tex. gal. .25 - —
Philadelphia gal. .32 - —
Newark gal. .29 - —
New York, dlvd. gal. .30½ - —
Wood River, Ill. gal. .2725 - —
tankwagon, New Jersey, dlvd. gal. .37½ - —
tankwagon, New York, dlvd. gal. .38½ - —
Mineral spirits, petroleum, regular, tanks, Calif., ex tax San Francisco gal. .168 - —
tanks, east coast, New Jersey, New York gal. .18 - —
tanks, group 3 gal. .12375 - —
tanks, Houston, Tex. gal. .145 - —
tankwagon, Boston gal. .20 - —
Buffalo gal. .20½ - —
Chicago gal. .289 - —
Cleveland gal. .23½ - —
Newark gal. .19 - —
New York gal. .19 - —
Philadelphia gal. .19½ - —
Pittsburgh gal. .19 - —
Providence gal. .20½ - —
Mirbane oil (see Nitrobenzene)
MNPT maroon toner, kgs., c.l., works lb. 6.30 - —
Molasses, blackstrap, feed grade, tanks, New Orleans gal. .11¾ - .12
tanks, New York ga' .6 - —
Molybdated orange, bbls. lb. .3 - —
Molybdenum metal, powd., 80 or 200 mesh, cans., works kilo. 7.84 - —
325 mesh, cans., works kilo. 9.13 - —
Molybdenum trioxide, purif., dms., works lb. 1.15 - —
Tech., chemical, dms., works, basis Mo content lb. 1.43 - —
Tech., metallurgical, dms., works, basis Mo. content lb. 1.47 - —
Molybdic acid, 85%, dms., works. lb. 1.05 - 1.15
Monoallylamine, dms., c.l., dlvd lb. .965 - —
dms., c.l., dlvd. lb. .995 - —
tanks, dlvd. lb. .96 - —
Monobutylamine, dms., c.l., dlvd, E. of Rockies lb. .57½ - —
dms., l.c.l., same basis lb. .59 - —
tanks, same basis lb. .55 - —
Mono-tert-butyl-m-cresol, dms., c.l., works lb. .55 - —
dms., l.c.l., works lb. .56 - —
tanks, works lb. .54 - —
Monochloracetic acid, purif. (see Chloroacetic acid, mono).
Monochlorobenzene, dms., c.l., frt. alld or dlvd. E lb. .10½ - —
dms., l.c.l., same basis lb. .11½ - —
tanks, same basis lb. .08¾ - —
Monoethanolamine, dms., c.l., dlvd. E lb. .27¼ - —
dms., l.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —
Monoethylaniline (see N-Ethylaniline).
Monoethylphanaphthylamine (see N-Ethyl-a-naphthylamine).
Monoethylamine, 70% aqueous, solution, dms., c.l., dlvd. E. 100% basis lb. .38½ - —
dms., l.c.l., dlvd. E., 100% basis, lb. .40 - —
tanks, dlvd. E., 100% basis lb 35 - —
Monoethylaniline (see N-Ethylaniline).
Monoethyltorthotoluidine (see N-Ethyl-o-toluidine).
Monoisopropanolamine, dms., c.l., dlvd E lb. .27½ - —
dms., l.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —
Monoisopropylamine, anhyd., dms., c.l., dlvd lb. .32½ - —
dms., l.c.l. same basis lb. .35 - —
tanks, same basis lb. .31 - —
Monomethylamine, anhyd., cyls., l.c.l. frt equald., 100% basis lb. .30 - —
tanks, same basis lb. .26 - —
30-35% soln., dms., c.l., frt. equald., 100% basis lb. .36 - —
dms., l.c.l., frt equald., 100% basis lb. .36½ - —
tanks, frt. equald. 100% basis, lb. .26 - —
40% soln., dms., frt. equald, 100% basis lb. .33 - —
dms., l.c.l., frt. equald., 100% basis lb. .33½ - —
tanks, frt. equald., 100% basis, lb. .26 - —
Monopentaerythritol, tech., bgs., c.l., dlvd. E lb. .31 - —
bgs., l.c.l., dlvd. E lb. .32 - —
Monopotassium glutamate, dms., 1,000-lb. lots, frt. alld lb 3.05 - —
dms, 100-lb lots, same basis lb 3.25 - —
Monosodium glutamate, dms., 100 lbs., dlvd lb. 1.00 - 1.07
Monosodium phosphate (see sodium phosphate, monobasic)
Mono-tertiary-butylmetacresol (see 6-tert-butyl-m-cresol)
Montan wax, Calif., refd., bgs lb. .27 - .28
imp., crude, Bohemian, bgs. lb. .22 - .24
German, bgs. lb. .26 - .27
Morphine, cns oz. 12.40 - 12.60
Morphine acetate, anhyd., cns oz 9.95 - 10.00
Morphine hydrobromide, cns oz 9.90 - 9.95
Morphine hydrochloride, NF, cns oz 9.90 - 9.95
Morphine sulfate, USP, cns oz. 9.90 - 10.05
Morpholine, dms., c.l., dlvd. E lb. .55¼ - —
dms., l.c.l., dlvd. E lb. .56¼ - —
tanks, dlvd. E. lb. .52¾ - —
Muriatic acid (see Hydrochloric acid).
Musk, syn., ambrette, fib dms., 100-lb. lots lb. 4.40 - 4.90
cns., 25-lb. lots lb. 4.50 - 5.00
Ketone, fib. dms., 100-lb. lots lb. 4.60 - 5.10
cns., 25-lb. lots lb. 4.70 - 5.20
Xylol, fib. dms., 100-lb lots lb 1.40 - —
cns., 25-lb. lots lb. 1.45 - —
Mustard seed, Danish yellow, bags. lb. .11½ - —
Montana, yellow, bgs. lb. .10½ - —
Oriental, bgs. lb. .08 - —
Mustard oil, syn. bots. lb. 1.60 - 1.85
Myristic acid, bgs lb. .31½ - .34
tanks lb. .30½ - —
Myrrh gum, cs lb. .55 - —

N

Naphtha, high solvency (see Solvent naphtha, petroleum)
Naphtha, petroleum, cleaner's (see Cleaner's naphtha).
Naphtha, VM&P, petroleum, 225°-300°F., b.r., tanks, west coast, Los Angeles gal. .174 - —
Portland, Ore. gal. .18 - —
San Francisco gal. .179 - —
Seattle, Wash. gal. .18 - —
east coast, New Jersey and New York gal. .19 - —
group 3 gal. .13875 - —
Naphtha, VM&P, petroleum, tankwagon, Boston gal. 21½ - —
Chicago gal. .299 - —
Cleveland gal. .24½ - —
Houston, Tex. gal. .15½ - —
Newark gal. .20½ - —
New York gal. .20½ - —
Philadelphia gal. .21½ - —
Pittsburgh gal. .20 - —
Naphthalene, crude, com., 74°, tanks, frt. equald lb. .04¼ - —
78°, tanks, same basis lb. .05 - —
Imp., 78°, bgs., large lots lb. .06½ Nom.
Naphthalene refd., indust., chipped, crushed, bgs., frt. equald. lb. .12½ - —
tanks, same basis lb. .09¾ - —
Refd., indust., balls, flakes, wholesalers, jobbers, bbls., c.l., same basis lb. .15½ - —
cs., 50 lbs., c.l., same basis, lb. .15¾ - —
1-lb. pkgs., c.l., same basis. lb. .18½ - —
a-Naphthol, bbls., frt. alld lb. 1.00 - —
b-Naphthol, tech., flake, bbls., c.l., works lb. .33 - —
bbls., l.c.l., works lb. .35 - —
Naphthol, ITR, red toner, bbls., works lb. 5.50 - —
1-Naphthol-3,6-disulfonic 8-amino acid (see H acid).
1-Naphthol-4 sulfonic acid (see Nevile and Winther's acid).
1-Naphthol-5-sulfonic acid (see L acid).
1-Naphthol-5-sulfonic 8-amino acid (see S acid).
2-Naphthol-6,8-disulfonic acid (see Gamma acid).
Naphthol sulfonic mixed acid (see Cleve's acid).
a-Naphthylamine, bbls., frt. alld lb. .50 - —
b-Naphthylamine, tech., flake, bbls., works lb. 1.60 - —
1-Naphthylamine-5-sulfonic acid (see Laurent's acid).
2-Naphthylamine-4,8-disulfonic acid (see Cassella acid).
2-Naphthylamine-1-sulfonic acid (see Tobias acid).
2-Naphthylamine-6-sulfonic acid (see Broenner's acid).
2-Naphthylamine-7-sulfonic acid (see F acid)
Naringin, fib. dms lb. 8.50 - —
Neatsfoot oil, 15° cold test, dms. lb. .30 - .33
20° cold test, dms lb. .29 - .32
30° cold test, dms lb. .28 - .31
Neocinchophen, USP, dms., frt. adjusted lb. 7.00 - 8.00
Neomycin sulfate, fib. dms., 1-kilo basis activity gram. .25 - —
fib. dms., 100-999-gram lots, basis activity gram. .30 - —
Tech., fib. dms gram. .14 - —
Neroli oil, NF, French, bots. lb. 425.00 - 575.00
Tunisian, bots. lb. 400.00 - —
Nerolin, cns. lb. 2.55 - 2.85
Neville and Winther's acid, dms., frt. alld lb. 1.30 - —

Niacinamide (see Nicotinamide).			
Nickel acetate, bbls., dlvd	lb.	.68½	.73½
Nickel carbonate, bbls., dlvd	lb.	.78¼	.85¼
Nickel chloride, bbls., dlvd	lb.	.37	.45
Nickel formate, bbls., ton lots, frt. alld	lb.	.72	.73
Nickel metal, electro cathodes, cs., works	lb.	.74	—
Nickel nitrate, bbls., works	lb.	.32½	.33½
Nickel oxide, black, bbls	lb.	.85	—
Green, bbls.	lb.	.84	—
Nickel sulfate, bgs. c.l., dlvd	lb.	.28	—
bgs., l.c.l., dlvd	lb.	.28½	.36
Nicotinamide, USP, 50-kilo dm., frt. adjusted	kilo.	8.00	—
Nicotinamide hydrochloride, dms., frt. adjusted	kilo.	8.00	—
Nicotine sulfate, 40% dealers, 50-lb. dms. frt alld	lb.	1.20	—
40% manufacturers 500-lb. dms., frt alld	lb.	1.05	—
Nicotinic acid, USP, dms. dlvd	kilo.	6.00	—
Nicotinic amide USP (see Nicotinamide).			
Niger seed, bgs	lb.	.10¼	—
Nitrethamide cbys	lb.	5.00	—
Nitric acid 38° Be., cbys., c.l., works E 100 lbs		5.75	—
cbys., l.c.l. works E 100 lbs		6.05	6.85
38° Be., cbys. c.l. works, E 100 lbs.		6.25	—
cbys., l.c.l., works E 100 lbs		6.55	7.35
40° Be., cbys. c.l. works, E 100 lbs		6.75	—
cbys., l.c.l., works E 100 lbs		7.05	7.85
42° Be., cybs., c.l., works, E. 100 lbs.		7.25	—
cbys., l.c.l. works, E 100 lbs.		7.55	8.35
Nitric acid, 58.5 to 68% HNO_3, tanks, works, 100% basis 100 lbs.		3.90	—
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs.		4.60	—
Nitric acid, CP. NF consumer, cbys., extra, c.l., works	lb.	.18½	—
cbys. extra. l.c.l., works.	lb.	.20	—
5-pint bots. extra. cs., c.l., same basis	lb.	.22½	—
5-pint bots. extra cs., l.c.l., same basis	lb.	.24	.25
4-Nitro-2-aminophenol tech., paste, dms., frt. alld	lb.	.99	—
m-Nitroaniline, crvst., dms., frt. alld	lb.	1.15	—
Paste, dms. frt. alld. 100% basis.	lb.	1.10	—
o-Nitroaniline flaked dms. t.l., frt. alld	lb.	.49	—
dms. t.l.l. frt. alld	lb.	.51	—
o-Nitroaniline orange toner, kegs,	lb.	1.35	—
p-Nitroaniline, dms. frt alld	lb.	.445	—
o-Nitroanisole, tech., tanks, frt. alld.	lb.	.36	—
p-Nitroanisole, tech. solid, dms., frt. alld	lb.	.72	—
Nitrobenzene, dbl dist., dms., c.l., frt. alld	lb.	.13	—
dms., l.c.l. frt. alld	lb.	.14	—
tanks, frt. alld	lb.	.11	—
p-Nitrobenzoic acid, dms., c.l., works	lb.	.63	—
dms., l.c.l., works	lb.	.64	—
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½ ¾, 5-6, 15-20, 30-40 60-80, 125-175 seconds, bbls. c.l., works	lb.	.37½	—
bbls., l.c.l., same basis	lb.	.33½	.40½
Nitrocellulose, ester-soluble, 10-20, cps. bbls., c.l., same basis.	lb.	.29½	—
bbls. l.c.l. same basis	lb.	.40½	.42½
Ester-soluble, 250-400, 600-1,000 seconds, bbls. l.c.l., same basis	lb.	.43	.46
Nitrocellulose, spirit soluble, 30-35 cps., ¼, ½ seconds, bbls., c.l., same basis	lb.	.43	—
bbls. l.c.l., same basis	lb.	.44	.46
Spirit soluble, 5-6 cps., 40-60 seconds, bbls., c.l., same basis	lb.	.42	—
bbls. l.c.l. same basis	lb.	.43	.45
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.			
o-Nitrochlorobenzene, dms. c.l., frt. alld	lb.	.15	—
dms., l.c.l., same basis	lb.	.16	—
tanks, same basis	lb.	.13	—
p-Nitrochlorobenzene, dms.	lb.	.26	.27
2-Nitro-p-cresol, tech., dms., dlvd.	lb.	.88	—
Nitroethane, dms., c.l., dlvd. E	lb.	.25	—
dms., l.c.l., dlvd E	lb.	.26½	—
tanks, dlvd E	lb.	.22½	—
Nitroethane prices West of Rockies are 1c. higher.			
Nitrogen solutions, tanks, frt. equald., N	unit.	1.20	—
Nitrogenous process tankage, bulk, works	unit-ton.	4.50	Nom.
Nitrogenous sewage sludge, bulk, f.o.b. Chicago, works	unit-ton.	3.10	.50
Nitromethane, dms., t.l., dlvd. E	lb.	.25	—
dms., l.t.l., dlvd E	lb.	.25½	—
Nitromethane prices West of Rockies are 1c. higher.			
a-Nitronaphthalene, bbls., frt. alld.	lb.	.31	—
o-Nitrophenol, dms., works, frt. equald	lb.	.94	—
p-Nitrophenol, dms., c.l., frt. alld.	lb.	.45	—
dms., l.c.l., frt alld	lb.	.47	—
1-Nitropropane, dms., c.l., frt. alld. E. of Rockies	lb.	.23½	—
dms., l.c.l., same basis	lb.	.25	—
tanks, same basis	lb.	.21	—
2-Nitropropane, dms., c.l., frt. alld. E. of Rockies	lb.	.18½	—
dms., l.c.l., same basis	lb.	.20	—
tanks, same basis	lb.	.16	—
Nitropropane prices West of Rockies are 1c. per lb. higher.			
m-Nitrotoluene, tech., dms., frt. alld.	lb.	.45	—
o-Nitrotoluene, dms., c.l., frt. alld.	lb.	.15	—
dms., l.c.l., frt. alld.	lb.	.16	—
tanks, frt. alld.	lb.	.13	—
p-Nitrotoluene, tech., cast, tanks, works	lb.	.26½	—
c.l., t.l., dms., same basis	lb.	.27½	—
l.c.l., dms., same basis	lb.	.28	—
p-Nitrotoluene, tech., flake, c.l., t.l., works	lb.	.27½	—
l.c.l., dms., same basis	lb.	.28	—
m-Nitro-p-toluidine, dms.	lb.	1.25	—
Nonylphenol, dms., c.l., frt. alld.	lb.	.22	—
dms., l.c.l. frt. alld	lb.	.23	—
tanks, frt. alld	lb.	.19½	—
Nonylphenol prices on shipments to Western States are 2c. higher.			
Nutmegs, East Indian, whole, bgs.	lb.	1.38	—
West Indian, bgs	lb.	1.45	—
Nutmeg oil, USP, dist., East Indian, cns	lb.	9.50	-12.75
West Indian, cns	lb.	9.50	-12.75
Nux vomica, bls	lb.	.20	—
Powd., bbls., bxs	lb.	.20	.22

O

Ocher (see Iron oxide yellow, nat.).			
Ocotea cymbarum oil, dms	lb.	.43	.63
Octane, indust., tanks, Bayonne, N.J	gal.	.20	—
Borger Tex.	gal.	.15¾	—
1-Octanol, tech., dms., c.l., dlvd., Zone 1	lb.	.43½	—
dms., l.c.l., dlvd. Zone 1	lb.	.45½	—
tanks, dlvd., Zone 1	lb.	.41	—
Octyl alcohol, perfumers' grade, bots	lb.	1.60	3.25
Octyl alcohol, tech, (see 1-Octanol, tech).			
Octyl phenol, bgs., c.l., works	lb.	.22	—
bgs., l.c.l., works	lb.	.22½	—
tanks, works	lb.	.21	—
Octyl phenol in dms. 11c. higher.			

Oils

Oil quotations are listed individually. For example, prices on Oil, coconut, may be found in the C's under Coconut oil.

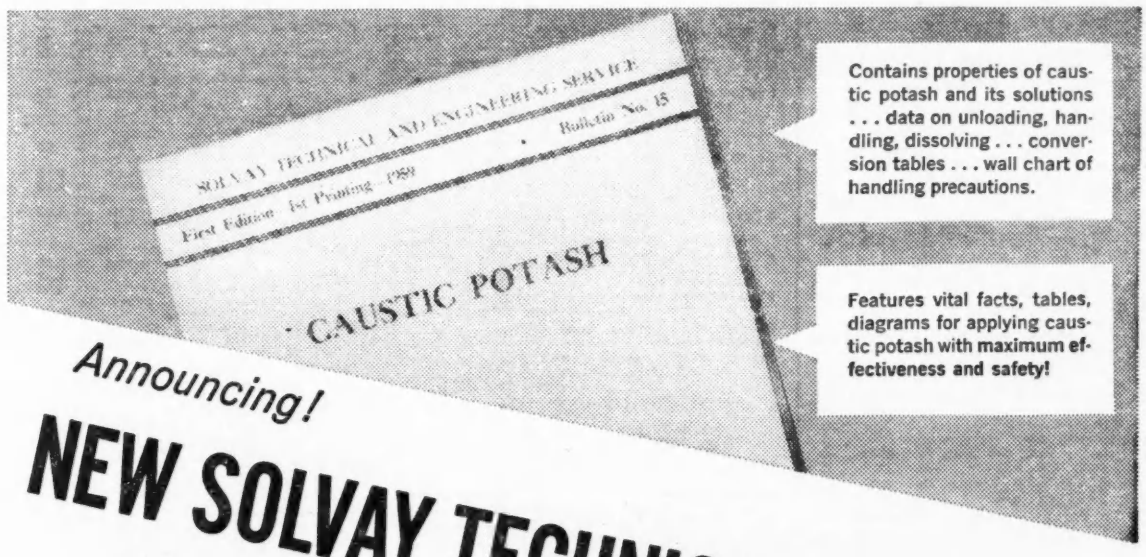
Oiticica oil, liq., cms.	lb.	.22	.22½
tanks	lb.	.20½	—
Oleic acid, dbl.-dist. (white), dms.	lb.	.18½	.21
tanks	lb.	.16	—
Single-dist., dms.	lb.	.17¼	.19¾
tanks	lb.	.14¾	—
Oleo oil, extra, dms.	lb.	.14½	.14¾
Oleostearine, dms.	lb.	.13	.13½
Oleum (see Sulfuric acid, fuming).			

Olibanum gum, siftings, cs.	lb.	.13	.20
Tears, cs.	lb.	.22	.30
Olibanum oil, bots.	lb.	5.00	7.65
Extra fine, bots	lb.	8.00	9.50
Olive oil, edible, dms., spot, duty-paid	gal.	2.40	2.60
Olivine, crude works	ton.	12.00	—
20 mesh, works	ton.	15.00	—
100 mesh, works	ton.	20.00	—
Opium, USP cns	oz.	19.20	-19.45
gran., cns.	oz.	21.65	-21.90
powd., cns.	oz.	21.65	-21.90
Orange oil, expressed, USP, Brazilian, cns., dms	lb.	No stocks.	
California, cns., dms	lb.	.85	.90
Florida, cns., dms.	lb.	.70	1.25
Messina, cns.	lb.	3.25	5.00
West Indian, bitter cns., dms.	lb.	3.25	3.85
Sweet, dist., cns., dms	lb.	.65	.70
Orange peel, bitter, Haitian, bls.	lb.	.18	.20
Sweet	lb.	.35	.38

Orange Pigments

Orange pigment quotations are listed individually. For example, prices on Orange, chrome, may be found in the C's under Chrome orange.

Origanum oil, Spanish, cns	lb	1.80	2.30
Orris root, Florentine, bls.	lb	.55	—
powd., bbls., bxs.	lb.	.65	—
Verona, bls.	lb.	.35	—
powd., bbls., bxs.	lb.	.45	—
Orthoanisidine (see o-Anisidine).			
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde)			
Orthochloroaniline (see o-Chloroaniline).			
Orthochlorobenzoic acid, (see o-Chlorobenzoic acid).			
Orthochloroparanitroaniline (see 2-Chloro-4-nitroaniline).			
Orthochlorophenol (see o-Chlorophenol)			
Orthocresol (see o-Cresol)			
Orthocresotinic acid (see 2,3-Creosotic acid)			
Orthodichlorobenzene (see o-Dichlorobenzene)			
Orthonitroaniline (see o-Nitroaniline).			
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).			
Orthonitroparachlorophenol (see 2-Nitro-4-Chlorophenol).			
Orthonitrophenol (see o-Nitrophenol).			
Orthonitrotoluene (see o-Nitrotoluene).			
Orthophenetidine (see o-Phenetidine).			
Orthophenylphenol (see o-Phenyl phenol).			
Ortho-tertiary amylphenol (see o-tert-Amylphenol).			
Orthotolidine (see o-Tolidine base).			
Orthotoluidine (see o-Toluidine).			
Ouabain, USP, bots.	gram	3.00	4.00
Ouricury wax, crude, bgs	lb.	.76	.77
Refd., pure, bgs.	lb.	.82	.83



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- ☐ #16—Calcium Chloride

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Oxalic acid, bgs., dms., c.l., works, lb. .18 - .18½
bgs., dms., 10,000-lb lots, works, lb. .18¼ - .18¾
bgs., dms., smaller lots, works, lb. .19¼ - .19¾
b-Oxynaphthoic acid, fib dms., 250 lbs. or more, frt. alld., lb. 1.14 - 1.17
Oxyquinolin sulfate, cns., 100-lb. lots, works, lb 4.75 - 5.00
cns., smaller lots, works .... lb. 4.92 - 5.17

P

Palm oil, clarif., dms. ..... lb. .15½ - .16½
tanks ..... lb. .1305 - —
Palm oil acid, dist., dms. ..... lb. 15¾ - 19¼
tanks ..... lb. 13¾ - .14¼
Palmarosa oil, cns ..... lb. 3.75 - 4.00
Papain, NF, powd. ..... lb. 5.00 - 7.00
Papaverine hydrochloride, nat. or syn., USP cns. 25-oz. to 100-oz. lots oz. 5.00 - —
cns., smaller lots oz 5.05 - 5.20
Papaverine sulfate, nat. or syn., USP, cns., oz 7.10 - 7.35
Paprika, Bulgarian bgs ..... lb. .34 - .35
Hungarian, bgs. ..... lb. .32 - —
Spanish, bgs. ..... lb. .50 - —
Yugoslavian, bgs. ..... lb. .34 - —
Para-aminobenzoic acid (see p-Aminobenzoic acid)
Parachlorobenzoic acid (see p-Chlorobenzoic acid).
Paramethylphenylcinchonic acid (see Neocinchophen)
Paranitrobenzoic acid (see p-Nitrobenzoic acid).
Paratoluidinemetasulfonic acid (see p-Toluidine m-sulfonic acid).
Para-aminophenol (see p-Aminophenol).
Parachloro-orthonitroaniline (see 4-Chloro-2 nitro aniline)
Para-anisidin (see p-Ansidine).
Parachloraniline (see p-Chloraniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde)
Parachlorophenol (see p-Chlorophenol).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Para toner, red, bbls. ..... lb 1.21 - —
Chlorinated, kgs. ..... lb 1.35 - —
Paraffin, crude, scale, white, 123°-127°F. ASTM, tanks, refy. lb. .0655- —
Paraffin, fully refd., 122°-124°F, ASTM, tanks, refy lb. .0765- —
125°-127°F. ASTM, tanks, refy. lb. .0765- —
Paraffin, fully refd., 130°-132°F., ASTM, tanks, refy lb. .0765- —
132°-134°F., ASTM, tanks, refy. lb. .0765- —
135°-137°F., ASTM, tanks, refy lb. .0765- —
AMP temperatures are an arbitrary 3°F higher than ASTM.
Paraffin oil, pale, 100-110 vis. at 100°F., tanks, east coast refy gal. .14 - —
Paraffin wax (see Paraffin)
Paraformaldehyde 91% flake, bgs., c.l., frt alld lb. 0955- —
bgs., l.c.l., frt. alld ..... lb. .1155- .1255
91%, powd., bgs. c.l., ex whse lb. .167 - —
bgs., l.c.l., ex whse lb. .182 - —
USP-X, fib dms., c.l. lb. .19 - —
fib dms., 1,000-lb. lots .... lb. 20 - —
fib dms., smaller lots .... lb. .21½ - —
Paraldehyde, tech., 98%, 55-gal. dms., t.l., dlvd lb. .14 - —
55-gal. dms., l.c.l., dlvd lb. .15 - —
tanks, dlvd. ..... lb. .11½ - —
Paranitroaniline (see o-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene)
Paranitrotoluene (see p-Nitrotoluene.
Paranitrophenol (see p-Nitrophenol).
Paraphenetidine (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine)
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol)
Para-tertiary butylphenol (see p-tert-Butylphenol)
Parathion, ethyl, dms., frt. alld. lb. .84 - —
Parathion prices 2c per lb higher in West.
Paratoluenesulfonamide (see p-Toluenesulfonamide)
Paris green, dealers, 100 lb. dms., frt. alld lb. .45 - —
Passion flower herb, bls ..... lb. .50 - .55
mills ton.63.00 - —
Patchouli oil, imp., ens ..... lb. 4.80 - 5.25
Peach kernel oil, USP (see Apricot kernel oil)
Peacock blue, fugitive, 100% color strength, 250-lb., bbls., dlvd. E. of Rockies lb. 1.00 - —
Peacock blue price 1c. higher W. of Rockies.
Peanut meal, 45%, old process, bgs., mills ton.58.50 - —
Peanut oil, crude, tanks, f.o.b. mills lb. .10¾ - —
Refd., dms. ..... lb. .19¼ - .19¼
tanks ..... lb. .17¼ - —
Pectin, dom. NF, citrus, powd., bus lb 2.05 - 2.06
tech., powd., 150 jelly grade. lb. 1.28 - —
Imp., Danish, ex whse lb. 1.28 - —
Penicillin potassium, cryst., bulk, 1,050,000 units. .027 - .028
Penicillin, procaine, bulk 1,000,000 units. .027 - .028
Pennyroyal oil USP, imported, cns. lb 2.30 - 3.10
Pentachlorophenol, bgs., c.l., t.l., works, frt equald lb. .21 - —
bgs., l.c.l., same basis ..... lb. .22½ - .29
Pentachlorophenol in dms 1c higher
Pentaerythritol, tech., bgs., c.l., dlvd lb. .31 - —
bgs., l.c.l., dlvd ..... lb. .32 - —
Pentaerythritol, di- and tri- isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, indust., tanks, Tex. refy. gal. .14 - —
Pentobarbital, dms., 100 lbs. or more lb 6.00 - —
Pepper, black, Malabar, bgs .... lb. .24¾ - —
black, Lampong, bgs ..... lb. .24½ - —
Red, Funtuas, bgs ..... lb. .30 - —
Japanese, Hontaka, bgs .... lb. .30 - —
Santaka, bgs. ..... lb. .30 - —
Sudanese, bgs ..... lb. .36 - —
White, Muntok, bgs ..... lb. .45 - —
Peppermint leaves, dom. USP, bls., dms lb. .70 - .75
Imp., USP., bls ..... lb. .85 - —
Peppermint oil, nat., dms. ..... lb. 3.70 - 4.65
Redist., USP, dms. ..... lb. 3.90 - 5.15
Perchloroethylene, dms., c.l. or t.l., dlvd lb. 13½ - —
dms., l.c.l., dlvd ..... lb. .15¼ - —
tanks, dlvd. ..... lb. .11¾ - —
tanktruck, 1,000 gal. min dlvd. lb. .12¼ - —
Peri acid, dry, bbls., frt. alld .. lb. 1.60 - —
Paste, bbls., frt. alld ..... lb. 1.55 - —
Peru balsam, dms ..... lb. 1.06 - —
Persic oil, USP (see Apricot kernel oil).
Petitgrain oil, South American cns., dms lb. 2.45 - 3.20
Petrolatum, cream, dms., c.l., refy. lb. .08125- —
dms., l.c.l., dlvd. ..... lb. .10125-.11375
tanks, refy. ..... lb. .05875- —
Extra amber, dms., c.l., refy ... lb. .07125- —
dms., l.c.l., dlvd. ..... lb. .09125-.10375
tanks, refy. ..... lb. .04875- —
Petrolatum, lily white, dms., c.l., refy. lb. .08625- —
dms., l.c.l., dlvd. ..... lb. .10625- .12
tanks, refy. ..... lb. .06735- —
USP, snow white, dms., c.l., refy. lb. .09125- —
dms., l.c.l., dlvd. ..... lb. .11125- .125
tanks, refy. ..... lb. .06875- —
USP, soft yellow, dms., c.l., refy. lb. .07125- —
dms., l.c.l., dlvd. ..... lb. .095 - .10375
tanks, refy. ..... lb. .04875- —
Petroleum pitch (see Asphalt, petroleum)

Petroleum Products

Petroleum product quotations are listed individually. For example, prices on Petroleum, mineral spirits, may be found in the M's under Mineral spirits, petroleum.

Petroleum sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works lb. .16½ - .18¾
non-ret. dms., l.c.l., works lb. .17½ - .19
tanks, works ..... lb. .14½ - .17
50-55% sulfonic content, non-ret. dms., c.l., works lb. .16 - —
non-ret. dms., l.c.l., works lb. .17 - —
tanks, works ..... lb. .13 - —
o-Phenetidine, dms. c.l., frt. alld, E lb. .91 - —
dms., l.c.l., same basis lb. .93 - —
p-Phenetidine, dms., c.l., frt. alld. lb 1.05 - —
dms., same basis ..... lb 1.08 - —
Phenobarbitol, USP, dms., 100-lb. lots lb. 3.25 - —
Phenobarbital-Sodium (see sodium phenobarbital).
Phenol, 90-92% (cresol 8-10%) non-ret. dms., frt. alld. E of Rockies lb. .16¾ - —
non-ret. dms. t.c.l. same basis, lb. .17¾ - —
tanks, same basis ..... lb. .14¾ - —
82-84% (cresol 16-18%) non-ret. dms., c.l., same basis lb. .16½ - —
non ret. dms., l.c.l., same basis, lb. .17½ - —
tanks, same basis ..... lb. .14½ - —
39°C. or above, tar distilled, non-ret. dms., c.l., same basis lb. .18 - —
non-ret dms., l.c.l., same basis, lb. .19 - —
tanks, same basis ..... lb. .16 - —
USP, syn., dms., c.l., t.l. frt. alld, lb. .18½ - —
dms., same basis ..... lb. .20½ - —
tanks, same basis ..... lb. .16½ - —
Phenolphthalein, USP or yellow, 250-lb. dm., 2,000 lbs., frt. alld. lb. 1.30 - —
250-lb. dm., same basis .... lb. 1.35 - —
Phenothiazine drench fib dms., t.l., dlvd lb. .44 - —
fib. dms., l.t.l., same basis lb. .47 - —
NF, fib. dms., t.l., same basis lb. .43 - —
fib. dms., l.t.l., same basis lb. .46 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Phenyl salicylate (see Salol).
Phenylacetaldehyde, soln., 50%, bots lb. 2.95 - —
100%, bots. lb 4.00 - 4.65
Phenylacetic acid, pure, cryst. cns. lb. 1.25 - 1.75
dl-Phenylalanine, dms works lb.27.00 -37.50
l-Phenyl-3-carbethoxy pyrazolone-5, fib. dms. 200-lb. lots dlvd E. lb. 3.45 - —
fib. dms., smaller lots, dlvd. E lb. 3.80 - —
N-Phenyldiethanolamine, dms., c.l., dlvd E lb. .41 - —
dms., l.c.l., dlvd. E ..... lb. .42½ - —
tanks, dlvd. E ..... lb. .38½ - —
m-Phenylenediamine, dms. frt alld. lb. 1.10 - —
o-Phenylenediamine, comi., 100 to 1,000 lbs., fib. dms., works lb. 1.70 - 1.80
p-Phenylenediamine, refd., dms., works lb. 1.42 - —
Tech., dms., works ..... lb. 1.40 - —
Phenylethanolamine, dms., c.l., works lb. .75½ - —
dms., l.c.l., same basis ..... lb. .77 - —
Phenylethyl acetate bots. ... lb 1.30 - 1.60
2-Phenylethyl alcohol, extra, dms. lb. 1.14 - 1.50
Standard, dms. lb. 1.10 - 1.60
b-Phenylethylamine, dms., 20,000 lbs. or more, frt. alld lb. 1.50 - —
dms., smaller lots, frt. alld. lb. 1.70 - 1.85
Phenylethylphenyl acetate, bots. lb. 4.00 - 4.25
Phenylglyconic acid (see Mendelic acid).
Phenylhydrazine, 97%, 450-lb. dms. lb. 1.45 - —
1-Phenyl-3-methyl pyrazolone-5, fib. dms., 250-lb. lots, dlvd. E lb. 1.80 - —
fib. dms., smaller lots, dlvd. E lb. 2.10 - —
o-Phenylphenol, dms., l.c.l., works, lb. .48 - .50
p-Phenylphenol, bgs., c.l., works lb. .38½ - —
bgs., l.c.l., works ..... lb. .43 - —
Philippine copal gum, pale, chips, bgs lb. .23¾ - .26
nubs, bgs. ..... lb. .33¼ - .37
seeds, bgs. ..... lb. .20 Nom.
sorts, bgs. ..... lb. .22¾ - .25
Phloroglucinol, coml., fib. dms., works lb. 6.40 - —
CP, bots., works ..... lb.17.75 - —
Tech., fib. dms., works ... lb.10.45 - —
Phloxin red toner (see Eosin red toner).
Phosgene, ret. cyls., works lb .15½ - —
Phosphate, defluorinated (see under D).
Phosphate rock, Curacao, Atlantic ports, New Orleans ton.48.00 - —
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 66-68% b.p.l., bulk, c.l., mines, long-ton 5.16 - —
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 55-70%, b.p.l., bulk, c.l., same basis, long-ton. 5.56 - —
70-72%, b.p.l., bulk, c.l., same basis long-ton. 6.21 - —
74-75%, b.p.l., bulk, c.l., same basis long-ton. 7.21 - —
76-77%, b.p.l., c.l., bulk, same basis long-ton. 8.21 - —
Above Florida prices are based on fuel oil at $2.37 per bbl. and labor at $1.52.
Phosphoric acid, food grade, 75%, cbys., c.l., works, E., frt. equald 100 lbs. 7.00 - —
cbys., l.c.l., same basis, 100 lbs. 7.25 - 7.75
tanks, t.w., works ... 100 lbs. 5.60 - —
80%, cbys., c.l., frt. equald 100 lbs. 7.85 - —
cbys., l.c.l., works 100 lbs. 8.10 - 9.35
tanks, t.w., works 100 lbs. 6.00 - —
NF, 85%, cbys., c.l., works.100 lbs. 8.50 - —
cbys., l.c.l., works 100 lbs. 8.75 - 9.00
tanks, t.w., works 100 lbs. 6.65 - —
Phosphorus, amorph., red, dms., t.l., works lb. .55 - —
dms., smaller lots, works lb. .56 - .57
Phosphorus, amorph., white (yellow), solid, dms., c.l., works, frt. equald lb. .20 - .20½
dms., l.c.l., works, frt. equald lb. .21½ - —
tanks, works, frt. equald lb. .19 - —
Phosphorus oxychloride, dms., c.l., works lb. .14 - —
dms., l.c.l., works ..... lb. .15 - —
tanks, works ..... lb. .12½ - —
Phosphorus pentasulfide, powd., dms., c.l., works lb. .13½ - —
dms., l.c.l., works ..... lb. .14½ - .15½
Solid, dms., c.l., works ..... lb. .11½ - —
dms., l.c.l., works ..... lb. .12½ - .13½
Phosphorus pentoxide, dms., c.l., works lb. .1395- .1450
dms., l.c.l., works ..... lb. .1550- .1650
Phosphorus sesquisulfide, dms., cs., c.l., works lb. .38 - —
dms., l.c.l., works ..... lb. .39 - .40
Phosphorus trichloride, dms., c.l., works lb. .14 - —
dms., l.c.l., works ..... lb. .15 - —
tanks, works ..... lb. .12½ - —
Phthalic anhydride, bgs., c.l., works, frt. equald lb. .17 - .19
bgs., l.c.l., same basis ..... lb. .18 - .20
tanks, same basis ..... lb. .16½ - .18½
Phthalimide, 97-98%, dms., frt. alld lb. .65 - —
Phthalocyanine blue, full strength, bbls. dlvd. E. of Rockies lb 2.90 - —
Resinated, bbls., same basis lb. 2.75 - —
Water dispersable, bbls., same basis lb. 1.52 - —
Phthalocyanine blue prices 1c. higher W. of Rockies.
Phthalocyanine green toner, bbls., works lb. 3.35 - —
Resinated, bbls ..... lb. 3.00 - —
Water dispersable, bbls ..... lb. 1.71 - —
Phthalocyanine green prices 1c. higher W. of Rockies
Phthalylsulfacetamide, fib dms., 1,000-lb. lots or more lb. 5.00 - —
NF, fib. dms. ..... lb. 5.20 - —
a-Picoline, dms., c.l., works, frt. equald lb. .43 - .43½
dms., l.c.l., works, frt. equald lb. .44 - —
tanks, same basis ..... lb. .415 - .422
b-Picoline, 98%, dms., t.l., works. lb. 1.05 - —
dms., l.c.l., same basis ..... lb. 1.15 - —
tanks, same basis ..... lb. .95 - —
b,g-Picoline, 5°C. dms., c.l., works. lb. .32½ - —
dms., l.c.l., works ..... lb. .33 - —
g-Picoline, tanks, f.o.b., works lb. 1.50 - —
dms., t.l., same basis ..... lb. 1.60 - —
Picric acid, NF, bbls. ..... lb. .85 - —
Tech. bbls ..... lb. .44 - —
Pigment green B, kgs. ..... lb. 1.45 - —
Pilocarpine hydrochloride, USP bots oz. 5.25 - —
Pilocarpine nitrate, USP, bots. vials. oz. 5.15 - —
Pimento, Jamaican, bgs ..... lb. .68 - —
Mexican, bgs. ..... lb. .57 - —
Pimento berry oil, NF, dms. .... lb. 3.75 - 9.25
Pimento leaf oil, crude, cns. .... lb. 2.10 - 2.48
Pine oil, dest.-dist., dms., l.c.l. works lb. .15 - —
dms., l.c.l. ex whse New York. lb. .173 - —
Pine oil, steam-dist., dms., ex whse, New York lb. .185 - —
dms., dlvd. ..... lb. .188 - —
Pineneedle oil, Siberian (see Abies Siberica oil)
Pinetar oil, coml., dms., c.l., works. lb. .0561- —
dms., l.c.l., works ..... lb. .0634- —
dms., c.l., ex whse New York. lb. .0745- —
tanks, works ..... lb. .046 - —
Pinetar oil, NF, rectified, dms., incl., l.c.l., works, South. lb. .40 - —
dms., l.c.l., ex whse, New York lb. .41½ - —
Refd., dms., incl., l.c.l., works lb. .35 - —
dms., incl. l.c.l., ex whse New York lb. .36½ - —
Pink root, bls. ..... lb. 1.75 - —
Piperazine, anhyd., dms., t.l., frt. alld lb. 1.60 - —
dms., l.c.l., same basis ..... lb. 1.65 - —
Piperazine citrate, 36%, dms., 1,000 lbs. or more, frt. alld. lb. 1.04 - —
Piperazine dihydrochloride, 51%, dms., 1,000 lbs. or more, frt. alld lb. 1.12 - —
Piperazine hexahydrate, 44%, dms., 1,000 lbs. or more frt. alld lb. .77 - —
dms., l.t.l., same basis ..... lb. .90 - —
Piperazine phosphate, 42%, dms., 1,000 lbs or more., frt. alld lb. .96 - —
Piperidine, dist., 98% min., dms., frt. equald lb. 2.60 - —
Piperonyl butoxide, dms. dlvd E lb. 4.50 - 5.05

Pitches

Pitch quotations are listed individually. For example, prices on Pitch, soybean, may be found in the S's under Soybean pitch.

Plaster of Paris (see Gypsum).
Platinum metal, works ..... oz.76.00 -80.00
Pleurisy root, bls. ..... lb .45 - .50
Podophyllum resin, NF, dms. ... lb.15.60 - —
Poke root, bls. ..... lb. .19 - .22
Polymyxin, bulk, bots., 50 billion units or more 1,000,000 units. .52 - —
bulk, bots., 25-50 billion units, 1,000,000 units. .54 - —
bulk, bots., 1-25-billion units, 1,000,000 units. .56 - —
Polyoxyethylene sorbitan monostearate, dms. 20,000-lb. lots, works lb. .42 - —
dms., 10,000-20,000-lb. lots, works, lb. .44 - —
dms., smaller lots, works ..... lb. .47 - .49
Polyoxyethylene sorbitan tristearate, dms., 20,000-lb. lots, works, lb. .42 - —
dms., 10,000-20,000-lb. lots, works lb. .44 - —
dms., smaller lots, works ..... lb. .47 - .49
Pontianak copal gum, chips, bgs. lb. .26 - —
Nubs, bgs. ..... lb. .37 - .40
Poppy seed, Argentine, bgs. .... lb. No stocks.
Dutch, bgs. ..... lb. .20½ - —
Danish, bgs. ..... lb. .19 - —
Polish, bgs. ..... lb. .20 - —
Turkish, bgs. ..... lb. .17½ - —
Potash, caustic, liq., 45% basis, dms., c.l., works 100 lbs. 4.25 - —
dms., l.c.l., same basis 100 lbs. 5.05 - —
tanks, same basis ..... 100 lbs. 3.70 - —
flake, 88-92%, dms., c.l., same basis 100 lbs. 9.15 - —
dms., l.c.l., same basis, 100 lbs.10.20 - —
Potash, solid, 88-92%, dms., c.l., works 100 lbs. 5.70 - —
dms., l.c.l. works 100 lbs. 9.75 - —
Potassium acetate, NF, 200-lb. dm., f.o.b. works E lb. .31 - —
Potassium bicarbonate, USP, gran., dms lb. .22 - —
USP, powd., dms. ..... lb. .24 - —
Potassium bichromate, gran., bgs., c.l., t.l., works lb. .18 - —
bgs., l.c.l., works ..... lb. .18½ - .19¾
Potassium bichromate in dms., 3c. higher.
Potassium bitartrate, 100-lb. bgs., c.l., frt. equald lb. .37 - —
100-lb. bgs., 5,000 lbs., 1 shipt., same basis lb. .38 - —
100-lb. bgs., smaller lots, same basis lb. .40 - —
Potassium borohydride, powd., dms., works lb.16.00 -22.00
Pelletized postassium borohydride $1.25 per lb. higher in 1,000-lb. lots.
Potassium bromate, dms., 1,000-lb. lots or more, works lb. .50 - —
dms., smaller lots, works ..... lb. .52 - .63
Potassium bromide, USP, gran., bbls., kgs lb. .39 - .40
Potassium carbonate, dom., NF, gran., bbls. dms lb. .20 - —
Potassium carbonate, dom., tech., powd., bbls., dms lb. .21 - .33
calcined, bgs., c.l., works 100 lbs. 8.50 - —
bgs., l.c.l., same basis, 100 lbs. 9.55 - —
Potassium carbonate, hydrated, 83-85%, bgs., c.l., works, 100 lbs. 7.10 - —
bgs., l.c.l., works ..... 100 lbs. 8.15 - —
Potassium chlorate, cryst., dms., c.l., works lb. .12¼ - —
dms., l.c.l., works ..... lb. .13½ - .14¼
Powd., dms., c.l., works ..... lb. .12¾ - —
dms., l.c.l., works ..... lb. .14 - .15
works lb. .12¼ - —
Potassium chlorate, NF, cryst., dms., 2,000 lbs. or more, works, lb. .16¾ - —
NF, gran. 25-lb. metal dms ... lb. .36 - —
NF, powd., dms., 2,000 lbs. or more, works lb. .17¼ - —
Potassium chloride, indust., 99.9% KCL, bulk, c.l., works ton.29.00 - —
bgs., c.l., works ..... ton.33.50 - —
99.3% KCL, bulk, c.l., works.ton.27.00 - —
bgs., c.l., works ..... ton.31.50 - —
USP, cryst., dms. ..... lb. .20 - .22
USP, gran., dms. ..... lb. .21 - .23
USP, powd., dms. ..... lb. .24 - .26
Potassium chloride, agricultural (see Potassium muriate)
Potassium chromate tech., dms., works lb. .50 - .51
Potassium citrate, NF, gran., 250-lb. dm., f.o.b. works E lb. .43 - —
powd., 250-lb. dms., same baris, lb. .46 - —
Potassium cyanide, dms. 20,000-lb. lots or more, works lb. .42½ - —
dms., 2,000-19,999-lb lots, works, lb. .43 - —
dms., smaller lots, works ... lb. .44 - .44½
Potassium dichromate (see Potassium bichromate)
Potassium ferricyanide, dms., ton lots, works lb. .50 - —
dms., smaller lots, works ..... lb. .65 - —
Potassium ferrocyanide, dms., ton lots lb. .24½ - —
dms., smaller lots ..... lb. .29 - —
Potassium fluoborate, fib dms., c.l., works lb. .30 - —
fib. dms., t.c.l., works ..... lb. .31 - —
Potassium fluoride, dms., works lb. .37 - .38
Potassium gluconate, 100-lb. dm., f.o.b. works E lb. 1.67 - —
Potassium guaiacol sulfonate, NF, dms lb. 2.10 - 2.30
Potassium hydroxide, tech. (see Potash caustic).
Potassium hydroxide, USP, pellets, 100-lb. dms., 1 to 100-dm. lots lb. .33½ - .38
Potassium hypophosphite, NF, fib. dms., 1,000-lb. lots lb. 1.38 - —
Potassium iodide, USP, cryst., gran., or powd., 250-lb. dm., f.o.b. works lb. 1.40 - —
Potassium manure salt, 22% K2O, bulk, c.l., works unit-ton. .17 - .1768
Potassium metabisulfite, gran., dms, lb. .16 - —
Powd., dms. ..... lb. .27 - —
Potassium muriate, standard, bulk, c.l., works..unit-ton. .30½ - .32½
bagged, 60% minimum K2O, same basis ton.22.90 -24.10
Gran., bulk, c.l., works..unit-ton. .30½ - .33
bagged, 60% minimum K2O, same basis..ton.23.20 -24.40
Inside prices apply to material contracted for prior to July 1, 1959.
Outside prices apply to material contracted for after that date but also for delivery during the current month.
Potassium nitrate, NF, cryst., bbls., 20-ton lots..100 lbs.17.00 - —
bbls., smaller lots.....100 lbs.18.00 -19.00
NF, gran., bgs., 20-ton lots, 100 lbs. 9.50 - —
bgs., smaller lots .....100 lbs.11.00 -12.00
NF, powd., bgs., 20-ton lots, 100 lbs.10.50 - —
bgs., smaller lots .....100 lbs.12.00 -13.00
Potassium oxalate, neutral, tech., fine gran., powd., 300-lb. dm., f.o.b. works E lb. .32 - —
Potassium pentaborate, gran., dms., c.l., works ton.219.50 - —
dms., ton lots, ex whse. ... ton.311.00 - —
dms., smaller lots, ex whse ton.316.00 - —
Powdered potassium pentaborate $10 per ton higher
Potassium perchlorate, dms., c.l., works lb. .18½ - —
dms., t.c.l., works ..... lb. .19 - .20
Potassium permanganate, coml., kgs., works lb. .25 - .33
USP, dms., works ..... lb. .29 - .35
Potassium persulfate, dms., c.l., works lb. .17½ - —
dms., t.c.l., works ..... lb. .18 - .21
Potassium pyrophosphate, tetrabasic, dms., works lb. .15½ - .18¾

Potassium prussiate red (see Potassium ferrocyanide).
Potassium prussiate yellow (see Potassium ferro-cyanide).
Potassium silicate, electrical grade, 30° Be, 1:2.0, dms., c.l., works 100 lbs. 6.50 - —
dms., l.c.l., 5 dm. lots or more, works 100 lbs. 7.25 - 7.65
tanks, works 100 lbs. 6.15 - —
40.5° Be, 1:2.1, dms., c.l., works. 100 lbs. 5.93 - —
dms., l.c.l., 5 dm. lots or more works 100 lbs. 6.70 - —
tanks, works 100 lbs. 5.60 - —
Potassium silicate, glass grade, bgs., c.l., works 100 lbs. 17.30 -18.15
bgs., l.c.l., works 100 lbs. 17.80 - —
Potassium silicate, soln., 29° Be, 1:2.5, dms., c.l., works. 100 lbs. 4.95 - —
dms. l.c.l., 5-dm. lots or more, works 100 lbs. 5.70 - —
tanks, works 100 lbs. 4.60 - —
Potassium silicofluoride, bgs., works lb. .09½- .10
Potassium silicofluoride in drums, 0.4c. per lb, higher.
Potassium stannate, dms., frt. alld. E lb. .789 - .861
Potassium sulfate, agricultural, bulk, c.l., works unit-ton. .67½- .69½
Inside price applies to tonnage contracted for prior to July 1, 1958.
Outside price applies to tonnage contracted for after that date but also for delivery during the current month.
Potassium sulfate, NF VII, cryst., dms lb. .31 - .32
NF VII, gran., dms lb. .18½- —
NF VII, powd., dms lb. .16 - .17
Potassium sulfocyanate, NF, cryst. (see Potassium thiocyanate)
Potassium thiocyanate, NF, cryst., dms., works lb. .96 - .98
Tech., dms., works lb. .77 - .79
Potassium titanate, ctns., c.l., works. lb. .16¼- —
ctns., 5-ton lots, works lb. .16½- —
ctns., 1-ton lots or less, works lb. .16¾- —
Potassium-magnesium sulfate, basis 40% K_2SO_4 and 18% MgO, bulk, works, base price ton. 13.45 - —
bulk, works, July forward ton. 14.00 - —
Potassium-sodium tartrate, NF gran. or powd., 250-lb. dms., c.l., f.o.b. works E lb. .42½- —
250-lb. dms., 5,000-lb. lots, same basis lb. .43 - —
250-lb. dms., same basis lb. .43½- —
Potassium-titanium fluoride, fib. dms., works lb. .39 - .40
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 - —
fib. dms., l.c.l., works lb. .52½- .55
Potato starch (see Starch, potato).
Pregnenolone, bots gram. No prices
Pregnenolone acetate, bots. gram. No prices
Procaine hydrochloride, USP, dms., 1,000-lb. lots, frt. alld lb. 2.60 - —
dms., 100-500 lb. lots lb. 2.95 - 3.15
Progesterone, USP, bots. gram. No prices.
Progesterone acetate, bots. gram. No prices.
Propane, indust., tanks, group 3 gal. .05 - —
tanks, Baton Rouge gal. .05375- —
tanks, New York harbor gal. .1005- —
(¼c. discount offered).
Propenyl guaethol, dms. lb. 24.30 -27.00
Propionic acid, syn., pure, dms., c.l., works lb. .23¼- —
dms., l.c.l., works lb. .24¼- —
tanks, works lb. .20¾- —
n-Propyl acetate, dms., c.l., dlvd. lb. .14¾- —
dms., l.c.l., dlvd. lb. .16¼- —
tanks, dlvd. lb. .12¼- —
n-Propyl alcohol, dms., c.l., dlvd lb. .14 - —
dms., l.c.l., dlvd. lb. .15¼- —
tanks, dlvd. lb. .11½- —
n-Propyl gallate, dms., 100 to 2,000-lb. lots, works lb. 3.90 - 4.40
n-Propyl-p-hydroxybenzoate. USP, dms lb 2.30 - 2.40
Propyl thiouracil, bots., 50 kilo lots or more kilo. 55.00 - —
bots., smaller lots kilo. 55.10 -55.30
n-Propylamine, dms., c.l., dlvd lb. 1.24 - —
dms., l.c.l., same basis lb. 1.255 - —
Propylene dichloride, consumers' dms., c.l., dlvd, E lb. .0845- —
dms., l.c.l., same basis lb. .0995- —
tanks, same basis lb. .07 - —
Propylene dichloride prices in West 1c. higher, same basis.
Propylene glycol, indust., dms., c.l., dlvd. E lb. .16 - —
dms., l.c.l., same basis lb. .17½- —
tanks, same basis lb. .13½- —
USP, dms., c.l., dlvd. E lb. .16 - —
dms., l.c.l., same basis lb. .19½- —
tanks, same basis lb. .15½- —
Propylene glycol methyl ether, dms., c.l., dlvd. lb. .20 - —
dms., l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18½- —
Propylene oxide, dms., c.l., dlvd. E. lb. .18 - —
dms., l.c.l., dlvd. E lb. .19 - —
tanks, dlvd. E lb. .15¼- —
Psyllium seed, black, bgs. lb. .32 - .34
Blonde, bgs. lb. .18 - .20
Husks, bgs. lb. .40 - —
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb. .03⅝- .04¼
bgs., smaller lots lb. .03⅞- —
Pumice, imp., Italian, silk-screen, coarse, bgs., ton lots lb. .06¼- —
fine, bgs. ton lots lb. .04 - —
sun dried, coarse, bgs. ton. 60.00 - —
fine, bgs. ton. 60.00 -70.00
Pumpkin seed, bgs. lb. .25 - .26
Pyrethrins, syn. (see Allethrin).
Pyrethrum flowers, fine grd., 0.9% pyrethrins, bgs., ton, works lb. .48 - —
Powd., 1.3% pjyrethrins, bags, ton, works lb. .69 - —
Pyrethrum liquid, 20/1 basis (2 grams pyrethrins per 100cc odorless base), dms., works gal. 9.35 - 9.45
100/1 basis (10 grams pyrethrins per 100cc odorless base), dms., works gal. 44.75 -45.25
Pyrethrum oleoresin, dewaxed, 20% dms., works lb. 10.60 -10.95
purif., 20%, dms., works lb. 10.60 -10.95
Pyridine, denat., dms. c.l., works and frt equald gal. 2.77 - —
dms. l.c.l., same basis gal. 2.80 - —
Refd., 2° non-ret. dms. l.c.l., same basis lb. .70 - —
tanks, same basis lb. .65 - —
Pyridoxine hydrochloride, USP, 500-gram bots., dms., f.o.b. works. kilo. 175.00 - —
gram lots or more kilo. 175.00 - —
Pyrites, Canadian, 48-50% S, mines, long-ton 5.00 - 6.00
Pyrocatechol (see Catechol)
Pyrogallic acid, NF (see Pyrogallol).
Pyrogallic acid, tech., bbls. lb 3.17 - 3.25
Pyrogallol, NF 100 lb. dms. lb 3.50 - —
Pyroxylin, USP bots. lb. 9.50 - —

Q

Quassia chips lb. .10 - —
Quercetin, fib. dms. kilo lots kilo. 26.40 - —
Quicksilver (see Mercury metal)
Quince seed, bgs. lb. 1.15 - 1.50
Quinidine sulfate, USP, cns. oz. .74½- .77
Quinine, NF, cns., 100-oz. lots oz. .34 Nom.
Quinine bisulfate, USP, cns. oz. .27¼- .29
Quinine hydrochloride, cns. oz. .289 - .304
Quinine sulfate, USP, cns. oz. .27½- .29
Quinoline, dms., c.l., frt. equald lb. .50¾- —
dms., l.c.l., same basis lb. .51¼- —
tanks, same basis lb. .50 - —

R

R salt, paste, dms. frt. alld., 100% basis lb. .88 - —
Powd. frt. alld. 100% basis lb. .98 - —
Rapeseed oil, dms. lb. .15¼- .15½
tanks lb. .13¼- —
Rare earth oxalate, 45-50%, bgs., works lb. 1.00 - —
Rauwolfia serpentina root, powd., bbls., dms lb. 1.00 - 1.20
Red carmine, No. 40 (see Carmine).
Red oil (see Oleic acid)

Red Pigments
Red pigment quotations are listed individually. For example, prices on Red, lithol toner, may be found in the L's under Lithol red toner.

Red precipitate (see Mercuric oxide, red).
Reserpine, cryst., bots gram. 1.25 - —
Resorcinol, tech grade, dms., c.l., works, frt. equald lb. .77½- —
dms., l.c.l., same basis lb. .78½- —
USP, cryst., dms., works lb. 2.75 - —
powd., dms., works lb. 2.95 - —
Resorcinol monoacetate, NF, dms. lb. 2.50 - —
Rhatany root, bgs. lb. .14 - .16
Rhodamine red toner, molybdated, PMA, kgs lb 6.00 - —
Tungstated, PTMA, works, kgs lb. 6.60 - —
Rhodinol, 5-lb. cans lb. 42.00 -46.00
Synthetic lb. 14.00 -16.00
Rhubarb root, India, whole, bgs. lb. .25 - —
powd., bgs. lb. .35 - —
Riboflavin, USP, fib. dms., kilo or more, dlvd kilo. 36.00 - —
USP, readily soluble, bots., dlvd. kilo. 130.00 - —
Riboflavin, 5-phosphate-sodium, fib. dms., kilo or more dlvd. kilo. 104.50 - —
Rice bran oil, clarified, dms., l.c.l. lb. .15½- —
tanks, dlvd. E lb. .13½- —
Ricinoleic acid (see Castor oil acids split).
Rochelle salt (see Potassium-sodium tartrate).
Roofing pitch (see Coaltar pitch roofing).
Rose oil, nat., Bulgarian, bots oz. 72.00 - —
Turkish, bots. oz. 55.00 -58.00
Rosemary oil, Spanish, NF, cns., dms. lb. .97 - 1.20
tech., cns., dms. lb. .50 - 1.20

Rosin, gum and wood (see Naval Stores in Protective Coatings market).
Rotenone, fib. dms., works, unit-lb. .12 - —
Resin, 25-45%, fib. dms., works, unit-lb. .12 - —
Rottenstone, bgs., 5-ton lots, ex-whse lb. 03¾- —
bgs., ton lots same basis lb. .04¼- —
Rubber solvent, petroleum, tanks, Calif. ex tax, San Francisco gal. .178 - —
tanks, east coast, N. J., N. Y. gal. .19 - —
tanks, group 3 gal. .13875- —
Rue oil, bots. lb. 2.75 - 3.00
Rutin, NF, fib. dms., 10 kilo lots kilo. 13.75 - —
fib. dms., 5 kilo lots kilo. 14.00 - —
fib. dms., 1 kilo kilo. 14.50 - —
Ryania, 100%, powd., bgs., c.l., works lb. .22 - —
bgs., l.c.l., same basis lb. .24 - —

S

S acid, bbls., works lb. 3.25 - —
Sabadilla seed, activated, ground with lime, bbls lb. .42 - .44
Saccharin, calcium, fib. dms., 1,000-lb. lots, works lb. 2.50 - —
USP, gran., soluble, dms., 1,000-lb. lots lb. 1.60 - —
dms., smaller lots lb. 1.70 - 1.80
USP, powd., soluble, insoluble, dms., 1,000-lb. lots lb. 1.65 - —
dms., smaller lots lb. 1.75 - 1.90

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Safflower oil, dms., New York tanks, Atl. Coast lb. .1785- .1825
lb. .1585- —
Saffron, Mancha Superior, tins lb. 25.00 - —
Safrol, dms. lb. .70 - —
Sage, Dalmatian, bgs. lb. .40 - —
Greek, cns. lb .16 - —
Italian, cns. lb. .18 - —
Sage oil, clary, bots. lb. 25.00 - 32.00
Dalmatian, cns. lb. 3.60 - 4.00
Spanish, cns. lb. 1.35 - 1.75
Sal soda (see Soda sal).
Salicylaldehyde, dms., c.l., t.l., f.o.b. plant, frt. equald lb 1.23 - —
dms., l.c.l., same basis lb 1.25 - —
Salicylamide, 100-lb dms lb. 1.05 - —
Salicylic acid, crude, fib. dms., c.l., t.l., frt alld lb 37¼ —
fib dms., l.c.l., frt. alld on 100 lbs. or more lb. 38½ —
Sublimed, tech. fib dms., c.l., t.l. dlvd lb. 39¼ —
fib dms. l.c.l. dlvd lb. 43½ —
USP, cryst., 200-lb no dms., 1,000-lbs or more lb. .50½ —
200-lb. fib. dms., less than 1,000 lbs lb. .53½ —
100-lb fib dms., 1,000-lbs or more lb. .52½ —
100-lb fib dms., less than 1,000 lbs lb. 55½ —
powd., 100-lb. fib. dms., 1,000-lbs. or more lb. .57½ —
100-lb fib dms., less than 1,000 lbs lb 60½ —
Salol, NF, gran., bbls. kgs. lb 1.20 —
Powdered salol, 25c per lb higher
Salt, rock, paper bgs., c.l. 100 lbs 1.09 —
Salt, table vacuum, common, fine, paper bgs. c.l 100 lbs. 1.34 - —
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis ton 28.00 - —
Saltpeter (see Potassium nitrate)
Sandalwood, E Indian chips, bgs. lb. 65 66
powd. fib dms lb 75 76
Sarcosine, tech., tanks, f.o.b., works, frt. equald lb. 1.03 —
Sandalwood oil, cns. lb. 13.25 - 14.50
Sardine oil, crude, tanks, Pac. coast lb. No stocks
Sassafras oil, artif., dms. lb. .49 .78
Nat., dom., dms. lb. 4.55 - 2.15
Savin oil, USP, cns lb 4.50 5.25
Savory oil, cns lb. 4.75 —
Schaeffer's salt, paste, dms., frt. alld. 100% basis lb. 85 —
Powd., bgs., frt. alld., 100% basis, lb. .95 - —
Scopolamine hydrobromide, USP, bots oz. 13.00 - —
Sebacic acid, CP, bgs., c.l., works, lb 69½ —
bgs., l.c.l., works lb. 71½ —
Purified, bgs., c.l., works lb. 65½ —
bgs., l.c.l., works lb. 67½ —
Seidlitz mixture fib dms. 5,000-lb. lots lb. 30½ —
fib dms. smaller lots lb. 31 32
Selenium powd., 95½% dms. dlvd lb 7.00 —
Senega root, bls. lb. 2.00 - 2.10
Senna leaves, Alexandria, whole and half, bls lb. 22 —
siftings lb 18 - —
Tinnevelly, No. 1, bls lb. 22 - —
No. 2, bls. lb 18 - —
No. 3, bls. lb 14 - —
pods, bls lb. 28 - —
powd., bbls., bxs. lb 17 - —
Serpentaria root, bls. lb 5.00 5.50
Sesame oil, USP, dms. lb .23 .30
Sesame seed, Columbian, bgs. lb .15½ —
Lebanese, hulled, bgs lb .19 —
Nicaraguan, hulled, bgs lb .21 - —
nat., bgs. lb. .14 - —
Salvadorian, nat., bgs lb. .13 - —
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .46 - —
bbls., 1,500-lb. lots lb. .47 - —
kgs., 1,500-lb lots lb. .48 - —
Bonedry shellac prices for less than 1,500-lb lots 1c. per lb higher for all packages.
Shellac, bleached, refd., bgs., 1,500-lb lots lb. .56 - —
bbls., 1,500-lb. lots lb. .57 - —
kgs., 1,500-lb lots lb. .58 - —
Shellac, orange, lemon No. 1, bgs., 10-bg lots lb. .36 .39
lemon No. 2, bgs., 10-bg. lots lb. .33 .37
superfine, bgs., 10-bg. lots lb .32 .34
Shellac in 1 to 10-bg. lots 1c. per lb more.
Shingle stain oil, tar distillate, dms., c.l., works gal. .37 - —
dms., l.c.l., works gal. .49 - —
tanks, works gal. .25 - —
Sienna pigment, burnt, paper bgs., c.l., works lb. .06½- .18½
paper bgs., l.c.l., works lb. .06¾- .17¾
Raw, paper bgs., c.l., works lb. .06¾- .16¾
paper bgs., l.c.l., works lb. .07 - .17
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., works ton 25.00 - —
bgs. l.c.l., works, ex whse. ton 45.00 - 55.00
Silica, hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton 20.00 - —
bgs, l.c.l., works ton 25.00 - —
99½%, 140 mesh, bgs., c.l., works ton 15.00 - —
bgs., l.c.l., works ton 20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb. .18 - —
dms., l.c.l., works lb. .22 - .30½
tanks, works lb. .17 - —
Silver bullion, ingots, cs Troy oz. .91⅝- —
Silver cyanide, bots., 1,000-oz. lots, oz. .94¾- —
bots., 500-oz. lots oz. .95¼- —
bots., 100-oz. lots oz. .98¼- —
Silver nitrate, CP, cryst., bots., 3,000-oz. lots oz. .67¼- —
dm., 1,000-oz. lots oz. .67¾- —
bots., 250-500-oz. lots oz. .68¾- —
USP granular silver nitrate 4c. per oz. higher.
Silver proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.15 - —
Strong, NF, bots., dms., 1,000-oz. lots oz. 1.10 - —
Snakeroot oil, Canada, cns. lb. 45.00 - 60.00
Soapbark, crushed, bls lb. .30 - .35
Powd., bls. lb. .35 - .40
Whole, bls. lb. .20 - .25
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.90 - —
paper bgs., l.c.l., stock pts., 100-lbs. 3.00 4.77
bulk, c.l., works 100 lbs. 1.60 - —
Light, 58%, paper bgs., c.l., works 100 lbs. 1.85 - —
paper bgs., l.c.l., stock pts. 100 lbs. 3.95 - 4.72
bulk, c.l. works 100 lbs. 1.55 - —
Soda, caustic, flake, 76%, dms., c.l., works, frt equald 100 lbs. 5.20 - —
liq., 50%, sellers' tanks, works, dry basis 100 lbs. 2.90 - —
50%, rayon type, sellers' tanks, works, dry basis 100 lbs. 2.90 3.00
73% sellers' tanks, works, dry basis 100 lbs. 3.00 - —
liq., 73%, rayon type, sellers' tanks, works, dry basis. 100 lbs. 3.00 3.10
solid, 76%, dms., c.l., works, 100 lbs. 4.80 - —

Soda, sal, conc., bgs., c.l., works, 100 lbs 2.50 - —
bgs., smaller lots, works 100 lbs 2.80 - —
Sodium acetate, anhyd., bgs., c.l., dlvd. E lb. .14½- —
NF, 60%, gran., dms. c.l., works. lb. .15½- —
dms., l.c.l., works lb. .17½- —
Sodium alginate, NF, white powd., dom., 300 lbs. or more lb. 1.02 - —
Sodium p-aminosalicylate, dms., 100-lb. lots or more frt adjusted lb. 1.90 - —
Sodium antimoniate, bgs. c.l. dlvd. E lb. .25½- —
bgs., l.c.l., dlvd. E lb. .27 - —
Sodium arsenate, 60% arsenic pentoxide, dealers, dms., ton or more, works lb. .26 - —
dms. less than ton lots, works lb. 26½- —
Sodium arsenite, 90% pink powder, 75% arsenious oxide, dealers, dms., ton lots or more, works lb. .17½- —
dms., less than ton lots, works lb .18 .19
Sodium ascorbate, dms. 25-50 kilo dms., f.o.b. works kilo. 10.00 - —
10-kilo dm., same basis kilo. 10.35 - —
5-kilo dm., same basis kilo. 10.75 - —
1-kilo bot., same basis kilo. 11.00 - —
Sodium benzoate, tech., dms., c.l., t.l., frt. alld lb. .35 - —
dms., l.c.l., same basis lb. .39 - —
USP, dms., c.l., t.l., frt. alld lb. .38 - —
dms., ton lots, same basis lb. .43 - —
dms., 1,000-lb lots, same basis. lb. .45 - —
Sodium bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.95 - —
bgs., l.c.l., works 100 lbs 3.85 - —
USP, powd., bgs., c.l., works. 100 lbs 2.55 - —
bgs., l.c.l., works 100 lbs 3.45 - —
Sodium bichromate, gran., bgs., c.l. t.l., works lb. .13 - —
bgs., l.c.l., works lb. .13½- .14¾
Sodium bichromate in dms ¾c. per lb. higher
Sodium bifluoride bbls. c.l. works, frt. equald lb. .19½- —
bbls., l.c.l. same basis lb. .1990- —
Sodium bisulfate, bulk c.l. works 100 lbs 2.00 —
dms., c.l., frt. equald 100 lbs 3.00 3.60
dms., l.c.l., frt. equald 100 lbs 3.50 4.10
Sodium bisulfite, anhyd., bgs., c.l., works 100 lbs 5.00 - —
bgs., l.c.l., works 100 lbs 5.45 - —
Soln., 35° bbls., c.l. works 100 lbs 1.70 - —
bbls., l.c.l., works 100 lbs 2.20 - —
Sodium borate (see Borax)
Sodium borohydride, powd., dms., works lb. 33.00 - 40.00
Stabilized water soln. 12% $NaBH_4$, 100% basis, dms., works lb. 15.00 - —
Pelletized sodium borohydride $1 per lb higher in 1,000-lb lots.
Sodium bromide, USP, gran., dms., works lb. .40 - —
Sodium carbonate, cryst., monohydrated (see Soda, sal)
Sodium carbonate, monohydrated, bgs., c.l., works 100 lbs 3.10 - —
bgs., l.c.l., works 100 lbs 3.50 - —
Sodium carboxymethyl cellulose (see CMC).
Sodium chlorate, cryst., 350-lb. dms., c.l works lb .09 - —
dms., l.c.l., works lb .09½- .10¼
Sodium chlorate in 100-lb. dms. only, ¼c. per lb. higher
Sodium chloride, tech. (see Salt).
Sodium chloride, USP, gran., bgs. lb .05 - —
Sodium chlorite, tech. dms., c.l., works lb. .58 - —
dms., 20-dm. lots or more works. lb. .66 - —
dms., smaller lots, works lb. .70 - 73
Sodium chloroacetate, tech., dms., c.l., works lb .27 - —
dms., l.c.l., works lb .28 - —
Sodium chromate, anhyd., fib. dms., c.l., t.l., works lb .14¾- —
fib. dms., l.c.l., works lb. .15¼- .16½
Sodium chromate, tetrahydrate, bgs., c.l., t.l., works lb. .1015- —
bgs., l.c.l. lb. .1065- .1190
Sodium citrate, anhyd., 200-lb. dm., f.o.b. works E lb. .62 - —
NF VIII, gran., bgs., c.l., same basis lb. .26 - —
USP, XIV, gran., bgs., c.l., same basis lb. .29 - —
Sodium citrate, USP powd prices ½c higher.
Sodium cyanate, dms., 1,000-lb. lots, works lb. .85 —
dms., smaller lots, works lb .90 1.10
Sodium cyanide, flake, 96-98%, dms., c.l. or 20,000-lb. lots lb .193 —
dms., over 1,000-lb lots lb .203 —
dms., 100-lb. to 1,000-lb lots lb .213 —
Gran sodium cyanide 1c higher
Sodium cyclamate, 100-lb. dm., f.o.b. works lb. 1.95 - —
Sodium diacetate anhyd., 39-41% acetic acid, 250-lb. dms., c.l., works lb. .18 - —
250-lb. dms., l.c.l., works lb. .18¾- —
Sodium diacetate, tech., 33-35% acetic acid, dms. l.c.l., works lb. .15 - —
250-lb. dms., l.c.l., works lb. .15¾- —
Sodium dimethyl dithiocarbamate, 40% soln. dms. c.l., t.l., frt, alld., 100% basis lb. .42 - —
dms., l.c.l., t.t.l., same basis lb. .47 - .52
tanks, same basis lb. .38 - —
Sodium ferrocyanide, bgs., 10-ton lots lb. .13½- —
bgs., smaller lots lb. .14¾- —
Sodium fluoride, white, 97%, fib. dms., c.l., works, frt. equald lb. .1390- —
fib. dms., l.c.l., works, frt. equald lb. .1465- —
Sodium formate, bgs., c.l. works. 100 lbs. 7.05 - —
bgs., l.c.l., ex whse. 100 lbs 8.65 - —
Sodium gentisate, 100-lb fib dms. lb 5.50 - —
Sodium gluconate, refd., 250-lb. dm., f.o.b. works E lb .84 - —
Tech., bgs., c.l., t.l., same basis lb .34 - —
Sodium hydride, 50% soln. in oil, dms., works lb. 1.25 - 2.50
25% soln. in oil, dms., 50 lbs. or less, f.o.b. shipping point lb. 2.20 - —
dms., 50-99 lbs., same basis lb. 1.77 - —
dms., 100-999 lbs., same basis. lb. 1.20 - —
dms., 1,000 lbs. or more, same basis lb. .95 - —
Sodium hydrosulfide (see Sodium sulfhydrate)
Sodium hydrosulfite dms. c.l., frt. alld lb. .22½- —
dms., l.c.l., frt. alld. lb. .24¾- —

Sodium hydroxide, NF, pellets, 100-lb. dms., 1 to 100-dm lots. lb. .23½- .28
Sodium hydroxide, tech. (see Soda, caustic).
Sodium hypophosphite, NF, dms., 1,000-lb. lots lb. .97 - —
Sodium hyposulfite (see Sodium thiosulfate).
Sodium iodide, USP, 300-lb. dm., f.o.b. works lb. 1.98 - —
Sodium lactate, edible, 60% cbys., dms. works lb. .26½- —
Sodium lauryl sulfate, dms., c.l., dlvd lb. .20½- —
dms., l.t.l., dlvd lb. .21½- —
tanks, dlvd. lb. .19½- —
Sodium metabisulfite (see Sodium bisulfite).
Sodium lignin sulfonate, bgs., c.l., works 100 lbs. 4.25 - 6.50
l.c.l., bgs., works 100 lbs. 4.40 - 7.00
Sodium metaborate octahydrate, gran., bgs., c.l. works ton. 102.00 - —
bgs., ton lots, ex whse 100 lbs. 8.00 - —
bgs., smaller lots ex whse. 100 lbs. 9.25 - 11.25
Sodium metaborate tetrahydrate, bgs., c.l. works ton. 210.00 - —
bgs., ton lots, ex whse 100 lbs. 13.93 - —
bgs., smaller lots, ex whse. 100 lbs. 15.18 - 17.18
Sodium metallic, bricks, c.l works. lb. .21 - —
Fused, 18,000-lb lots or more, works lb. .19½- —
tanks, works lb. .17 - —
Sodium metalinate, bbls. frt alld. lb. .62 - —
Sodium metasilicate, anhyd., bgs., c.l., works 100 lbs. 5.70 - —
bgs. 6,000-19,900 lb lots, works 100 lbs 6.05 - —
dms., c.l., works 100 lbs 6.20 - —
dms., l.c.l., works 100 lbs 6.55 - —
Sodium metasilicate pentahydrate, bgs., c.l., works 100 lbs. 4.45 - —
bgs., l.c.l., works 100 lbs. 4.80 - 6.75
dms., c.l., works 100 lbs. 4.95 - —
dms., l.c.l., works 100 lbs. 5.30 - 7.25
Sodium molybdate, anhyd., dms., works, frt. equald lb. .92 - .99
Cryst., dms., works, frt. alld lb. .74 - .76
Sodium monoglutamate (see Monosodium glutamate.
Sodium monohydrate (see Sodium carbonate, monohydrated)
Sodium naphthionate bbls., lb. .70 - —
Sodium nitrate, dom., crude, bgs., c.l., works ton. 45.50- —
bulk, c.l., works ton 41.50 - —
Imp., 100-lb. bgs., c.l., Atl., Gulf, Pac., whse ton. 45.50 - —
bulk, c.l., same basis ton. 41.50 - —
Sodium nitrite, USP, bbls., c.l., works, frt equald 100 lbs. 9.00 - —
bbls., l.c.l., same basis 100 lbs. 11.00 - —
Sodium orthosilicate, conc., dms., c.l., works 100 lbs. 6.70 - —
dms., l.c.l., works 100 lbs. 7.05 - 7.65
Sodium orthosilicate, hydrated, flake, bbls., c.l. works. 100 lbs. 5.65 - —
bbls, l.c.l., works 100 lbs. 7.60 - 7.90
Sodium oxalate, 98%, bgs., works. 100 lbs. 12.35 - —
Sodium para-aminobenzoate (see Sodium p-aminobenzoate).
Sodium para-aminosalicylate (see Sodium p-aminosalicylate).
Sodium pentachlorophenate, briquets, dms., c.l., works, frt. equald lb. .26 - —
dms., l.c.l., same basis lb. .27½- .34
Pellets, dms., c.l., same basis lb. .26 - —
dms., c.l., same basis lb. .27½- .34
Powd., dms., c.l., same basis lb. .25 - —
dms., l.c.l., same basis lb. .26½- .33
Sodium pentobarbital, USP, dms., 100 lbs. or more lb. 6.00 - —
Sodium perborate, NF, tech., bgs., c.l., works lb. .18½- —
bgs., l.c.l., works lb. .19 - .21
Sodium peroxide, dms., c.l., t.l., dlvd. E. of Miss lb. .21½- —
dms., l.c.l., same basis lb. .22 - .22½
Sodium phenobarbital, USP, 100-lb. dms lb. 3.75 - —
Sodium phenolsulfonate, USP, IX, gran., dms lb. .52 - .53
NF, powd., dms lb. .55 - .56
Sodium phosphate, dibasic, anhyd., bgs., c.l., frt. equald. 100 lbs. 7.95 - —
bgs., l.c.l., same basis 100 lbs. 8.35 - 9.40
Sodium phosphate, duohydrate, bgs., c.l., frt. equald 100 lbs. 7.60 - —
bgs., l.c.l., same basis 100 lbs. 8.10 - —
USP, dried, powd., bgs., dms., works lb. .19 - .20½
Sodium phosphate, monobasic, anhyd., bgs., c.l., frt. equald. 100 lbs. 9.00 - —
bgs., l.c.l., same basis 100 lbs. 9.40 - 10.00
Sodium phosphate, tribasic, anhyd., bgs., c.l., frt. equald. 100 lbs. 9.05 - —
bgs., l.c.l. frt. equald. 100 lbs. 9.45 - 10.05
cryst., bgs., c.l., t.l., frt. equald. 100 lbs. 4.60 —
bgs., l.c.l., frt. equald 100 lbs. 5.00 - 5.75
Sodium phosphate in dms. 60c to 80c higher than bgs
Sodium picramate, tech. paste, dms., f.o.b., works, frt. equald lb. .90 - —
Sodium prussiate, yellow (see Sodium ferrocyanide)
Sodium pyrophosphate acid, bgs., c.l., works, frt. equald. 100 lbs. 11.10 - —
bgs., l.c.l., same basis 100 lbs. 11.85 - 12.35
Sodium pyrophosphate, terric, dms., c.l., t.l., works lb. .36 - —
dms., l.c.l., works lb. .37 - .39
Sodium pyrophosphate tetrabasic, anhyd., bgs., c.l., works, frt equald 100 lbs. 7.81 —
bgs., l.c.l. same basis 100 lbs. 9.21 - 9.71
Sodium salicylate, USP, dms., 1,000-lbs. or more lb. .78½- —
dms., less than 1,000 lbs dms.lb. .81½- —
Sodium sesquicarbonate, bgs., c.l., works 100 lbs. 2.35 - —
bgs., l.c.l., dlvd. zone 1 100 lbs 4.10 - 4.35
dlvd. zone 2 100 lbs 4.35 - 4.60
dlvd. zone 3 100 lbs 4.75 - 4.90
dlvd. zone 4 100 lbs 5.35 - 5.60
Sales zones are: (1) Atl. states E. of Miss., R and N of south bound of Ky. and Va., Ala., La., and Miss., south of 31°; Tex E. of 100°; S. of 31° Fla.; also Me., N. H. and Vt. in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport) Minn. Mo. (except St. Louis) Neb E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No of 31°; (3) Ark. W. of 96°, Kan., Neb W. of 98° N. D., Okla., S. D., Tex., W of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.
Sodium sesquisilicate, anhyd., bgs., c.l., t.l., works 100 lbs 5.70 - —
dms., c.l., t.l., works 100 lbs 6.20 - —
Hydrated, bgs., c.l., works 100 lbs 5.00 - —
bgs., 6,000-19,900 lb. lots, works. 100 lbs. 5.35 - —
Sodium sesquisilicate, hydrated, dms., c.l., works 100 lbs. 5.50 - —
dms., 6,000-19,900 lb lots, works. 100 lbs. 5.85 - —

Sodium silicate, liq., 40° Be. turbid, 1:3.2, dms., c.l., works. 100 lbs. 1.55 - —
dms., l.c.l., works 100 lbs 1.90 2.40
tanks, works 100 lbs 1.20 —
47° Be., turbid, 1:29.9, dms., c.l., works 100 lbs. 2.25 - —
dms., l.c.l. works 100 lbs 2.60 3.45
tanks, works 100 lbs 1.90 —
52° Be. turbid, 1:2.4, dms., c.l., works 100 lbs 2.65 —
dms., l.c.l., works 100 lbs 3.00 3.50
tanks, works 100 lbs 2.30 —
Solid, 1:3.2, bgs., works ton. 67.50 —
Sodium silicofluoride, bgs., c.l., works lb. .065 - —
bgs., l.c.l., works lb. .069 - —
Sodium silicofluoride in dms. 0.4c. per lb higher.
Sodium stannate, dms. works, frt. alld. E lb. .648 - .707
Sodium sulfa drugs (see Sulfa name).
Sodium sulfanilate bbls. works lb. .22 —
Sodium sulfate, NF VII, dried, powd., dms lb. .22½- —
Tech., anhyd., bgs. c.l. dlvd. E ton 54.00 —
detergent, rayon grade, bgs. c.l., works ton. 26.00 —
bulk c.l., works ton. 32.00 —
USP, cryst. fib dms lb 17½ - .18
Sodium sulfhydrate, flake, 70-72%, dms., c.l., works frt equald. lb. 07¼- —
dms., l.c.l., same basis lb. 08¼- —
Liq., 40-44% tanks works, 100% basis ton. 130.00 —
Sodium sulfide, flake, dms. c.l., works, E., frt equald lb. 06 - —
dms., l.c.l., same basis lb. 07 - —
Fused, bbls., c.l., works, E., frt. equald lb. 05½- —
bbls., l.c.l., same basis lb. 06½- —
Sodium sulfite, anhyd., bgs., c.l. works 100 lbs 7.55 - —
bgs., l.c.l., same basis 100 lbs 7.95 - —
Tech. bgs., c.l., works 100 lbs 3.50 —
bgs., l.l., same basis 100 lbs 4.00 —
Sodium sulfocyanide, CP (see Sodium thiocyanate).
Sodium tetraborate (see Borax)
Sodium tetrasulfide, liq., 40% dms. c.l., works, frt. equald lb. .04½- —
dms., l.c.l. same basis lb. .05½- —
Sodium thiocyanate CP dms lb. .55 .65
Tech., anhyd. dms., 1 ton lots or more, works lb. .317 —
dms., less than ton lots, works lb. .337 —
Sodium thiosulfate, NF, cryst bbl's. lb. .13½- —
Sodium thiosulfate, tech., anhyd., 100-lb. bgs., c.l., t.l., frt. equald 100 lbs. 8.20 - —
100-lb. bgs., l.c.l., t.t.l., frt. equald 100 lbs. 8.60 - —
Sodium thiosulfate, tech., anhyd., photo grade, 64-lb. bgs., c.l., t.l., frt equald lb. .0820- —
64-lb. bgs., l.c.l., t.t.l., frt. equald lb. .0860- —
Sodium thiosulfate, tech., pentahydrate, photo grade, 100-lb. bgs., c.l., t.l., frt. equald. 100 lbs. 5.25 - —
100-lb. bgs., l.c.l., t.t.l., frt. equald 100 lbs. 5.50 - —
Sodium titanate, ctns. c.l., works. lb. .14¼- —
ctns., 5-ton lots, works lb. .14½- —
ctns., 1-ton or less, works lb. .14¾- —
Sodium trichloroacetate, 94%, 100-lb dms., c.l., frt alld E. lb. .35 - —
50-lb. dms., c.l., frt alld E lb. .35½- —
10-lb cns., c.l., frt alld E lb. .42 —
Prices on Sodium trichloroacetate W of the Rockies are 1¾c per pound higher.
Sodium tripolyphosphate, bgs., c.l., works, frt equald 100 lbs. 8.10 —
bgs., l.c.l., same basis 100 lbs 8.56 9.06
Sodium trisilicate, powd., 1:3.2, bgs., c.l., works 100 lbs 8.95 —
bgs., l.c.l., works 100 lbs 9.70 - 13.13
dms., c.l., works 100 lbs. 9.45 - —
dms., l.c.l., works 100 lbs. 10.20 - 10.60
Sodium tungstate, tech., kgs dlvd. E lb. 1.09 - —
Sodium-ammonium phosphate, purif., cryst., dms., works lb. .52 - —
Sodium-carboxymethyl cellulose (see CMC).
Sodium-cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd lb. .21 - —
dms., l.c.l., same basis lb. .21½- —
Sodium-zirconyl sulfate, fib. dms., 1,000-lb lots or more works lb. .28 - —
fib., dms., smaller lots, same basis lb. .30 - —
Solvent naphtha, coaltar, high-flash, tanks, frt. equald gal. .30 - .35½
Solvent naphtha, petroleum, aromatic 312°-365°F, b.r., 17.2°C, m.a.p., tanks, New Jersey gal. .31 - —
315°-350°F, b.r., 17.2°C, m.a.p., tanks, Texas City gal. .35 - —
342°-351°F, b.r., 15°C, m.a.p., tanks, Baytown, Texas gal. .29 - —
324°-349°F, b.r., 16.5°C, m.a.p., tanks, Houston gal. .32 - —
322°-350°F, b.r., 17.2°C, m.a.p., tanks, Baytown, Tex. gal. .29 - —
352°-413°F, b.r., 17.5°C, m.a.p., tanks, Houston gal. .32 - —
365°-404°F, b.r., 19°C, m.a.p., tanks, New Jersey gal. .32 - —
367°-421°F, b.r., 20°C, m.a.p., tanks, Baytown, Tex. gal. .30 - —
Solvent naphtha, petroleum, partial aromatic, 205°-282°F, b.r., 38°C, m.a.p., tanks, New Jersey gal. .24 - —
211°-277°F, b.r., 25.6°C, m.a.p., tanks, New York, New Jersey gal. .28 - —
221°-278°F, b.r. 34.8°C, m.a.p., tanks, Houston gal. .20 - —
262°-325°F, b.r., 41.6° C, m.a.p., tanks, Houston gal. .25 - —
357°-403°F, b.r., 34°C, m.a.p., tanks, Houston gal. .36 - —
358°-401°F, b.r., 24.4°C, m.a.p., tanks, New Jersey gal. .38 - —
Sorbitan monostearate, nb. dms., 20,000-lb. lots, works lb. .33 - —
fib. dms., 10,000 to 20,000-lb. lots, works lb. .35 - —
fib. dms., smaller lots, works lb. .38 - .40
Sorbitan tristearate, fib. dms., 20,000-lb. lots, works lb. .34 - —
fib dms., 10,000 to 20,000-lb. lots, works lb. .36 - —
fib. dms., smaller lots, works lb. .39 - .41
Sorbitol, cryst., resin grade, pellets, dms., c.l., works lb. .23 - —
dms., 1 to 5-ton lots, works, lb. .25 - .26
Powd., dms., c.l., works lb. .26 - —
dms., 1 to 5-ton lots, works. lb. .38 - .39
Soln., coml., aqueous, dms., c.l., works lb. .24¼- —
dms., ton lots, works lb. .25 - —
dms., smaller lots, works lb. .25¼- —
tanks, works lb. .23¼- —
Sorbitol, NF, reg., 70% aqueous, dms., c.l., works lb. .16 - —
dms., ton lots, works lb. 16¾- —
dms., smaller lots, works lb. 17 - —
tanks, works lb. .15 - —

Soya protein, chemically isolated, old process, bgs., c.l., works. lb. .23 - —
bgs., l.c.l., works ..... lb. .23½- —
Chemically isolated, new process, bgs., c.l., works. lb. .20 - —
bgs., l.c.l., works ..... lb. .20½- —
Soybean meal, 44%, bulk, Decatur, ton.60.00 -60.50
Soybean oil, crude, tanks, Decatur, ton. .09¼- —
Foots, soapstock, acid 95%, tanks, lb. .07⅛ Nom.
Refd., alkali, dms ..... lb. .1355- .1370
tanks ..... lb. .1155- —
Clarified, dms. ..... lb. .1305- .1325
tanks ..... lb. .1105- —
Salad, dms. ..... lb. .13½- .13¾
tanks ..... lb. .11½- —
Soybean oil acids, dbl. dist., dms., lb. .18 - .20½
tanks ..... lb. .15½- —
S. D., dms ..... lb. .16¾- .19¼
tanks ..... lb. .14¼- —
Sparteine sulfate, cns. ..... oz. .80 - —
Spearmint leaves, dom., bls. ..... lb. .75 - —
Spearmint oil, NF, dms. ..... lb. 5.10 - 6.10
Sperm oil, bleached, winter, 45°, dms. lb. .1450- .1550
tanks ..... lb. .1250- —
Nat., winter, 45°, dms. ..... lb. .1350- .1450
tanks ..... lb. .1150- —
Spermaceti wax, blocks, cs. .... lb. .31 - .34
Cakes, cs. ..... lb. .32 - .34
Spruce oil cns, dms. ..... lb 2.10 - 3.55
Squill, white, bls ..... lb. .16 - .18
powd., bbls., bxs ..... lb. .17 - .20
St. John's bread, edible, bls. ... lb. .17 - —
Stannic chloride, anhyd., dms., works lb. .817 - .839
Stannic oxide, dms., dlvd. ..... lb. 1.10 - 1.11
Stannous chloride, anhyd. dms., works lb. 1.013 - 1.268
Stannous chloride, hydrous, cryst., works lb. .87½- .88½
Stannous sulfate, dms., works lb. 1.067 - 1.067
Star root (see Helonias root).
Stargrass root (see Aletris root).
Stavesacre seed, bgs. ..... lb. .60 - .61
Stearic acid, dbl., pressed, bgs lb. .16¾- .19¼
Single-pressed, bgs. ..... lb. .16¼- .18¾
Triple-pressed, bgs. ..... lb. .18½- .21
Stearine, oleo (see Oleostearine)
Stoddard solvent, petroleum, tanks, east coast, New Jersey, New York gal. .18 - —
tanks, western Pennsylvania, gal. .16 - —
tanks, group 3 ..... gal. .12375- —
tankwagon, Boston ..... gal. .20 - —
Chicago ..... gal. .299 - —
Cleveland ..... gal. .23½- —
Los Angeles, ex tax ..... gal. .199 - —
Stoddard solvent, petroleum, tankwagon, Newark gal. .19 - —
New York ..... gal. .19 - —
Philadelphia ..... gal. .19½- —
Pittsburgh ..... gal. .19 - —
Stramonium leaves, bgs ..... lb. .15 - —
Streptomycin hydrochloride, bulk, gram. .037 - .038
Streptomycin sulfate, bulk ... gram. .037 - .038
Strontium bromide, NF, cryst., 100-lb. dm., f.o.b. E lb. .92 - —
Strontium carbonate, pure, dms., 5-ton lots or more, works. lb. .35 - —
dms., 1-ton lots, works .... lb. .37 - —
Tech., dms., works ..... lb. .19 - —
Strontium chromate fib. dms., dlvd. lb. .48 - —
Strontium iodide, jars, 25-lb. lots. lb. 3.57 - —
Strontium nitrate, bgs., c.l., works. 100 lbs.11.00 - —
bgs., l.c.l., works ... 100 lbs. 12.00 - —
Strontium salicylate, NF, dms. lb. 1.85 - —
Strontium sulfate, air floated, 90%, 325 mesh, bgs., works ton.56.70 -66.15
Strophanthin G (see Ouabain, USP).
Strophanthin K, bots. ..... oz.25.00 -25.50
Strophanthus seed, Kombi, biologically tested, bgs lb. 3.50 - 3.75
Styrax gum, USP, cs ..... lb. 4.50 - 5.50
Styrene monomer, polymer grade, 99.6%, dms., c.l., frt. alld. lb. .17 - —
dms., l.c.l., same basis .... lb. .19 - —
tanks, same basis ..... lb. .14½- —
Styrene monomer, tech., 99.2%, dms., c.l. lb. .1453- —
dms., l.c.l., same basis .... lb. .1653- —
tanks, bulk, same basis ..... lb. .1203- —

Above prices are escalated for each calendar quarter on the basis of cost of crude oil at the well, cost of petroleum refining labor, and prices in the three major sections of the Wholesale Commodity Price Index.

Styrolyl acetate, bots. ..... lb. 1.25 - 1.45
Succinic acid, purif., cryst., bbls., works lb. .62 - .78
Sucrose, refd., white, bgs., refy E. lb. .0935- —
Sucrose octa-acetate, denaturing grade, 100-200-lb. lots, bgs., l.c.l., works lb. 1.00 - —
Sugar (see Sucrose).
Sugar cane wax, dom., refd., slabs, 80-lb. ctns. works lb. .60 - .65
80-lb. ctns., spot ... lb. .65 - .75
Sulfabenzamide, dms. ..... kilo. 8.80 - 9.90
Sulfabenzamide-sodium, dms. . kilo. 9.00 -10.10
Sulfacetamide, USP, fib. dms. . kilo. 7.70 - 8.80
Sulfacetamide-sodium, USP, fib. dms kilo. 8.15 - 9.25
Sulfadiazine, USP, microcrystals, dms kilo.23.35 -24.45
USP, powd., dms. ..... kilo.22.60 -23.70
Sulfadiazine-sodium, USP, dms kilo.24.80 25.90
Sulfaguanidine, NF X, dms. . kilo. 5.50 - 6.60
Sulfamerazine, USP, microcrystals, dms kilo.23.50 -24.60
Sulfamerazine-sodium, USP, powd., dms kilo.24.80 -25.90
Sulfamethazine, USP XV, microcrystals, dms kilo.19.65 -20.75
USP XV, powd., dms ..... kilo.18.75 -19.85
Sulfamic acid, cryst., dms., c.l., t.l., works 100 lbs.16.00 - —
dms., l.c.l., l.t.l., works 100 lbs.17.50 -18.50
100 lbs. or more lb. 6.00 - —
Gran., dms., c.l., t.l., works. 100 lbs.14.75 - —
dms., l.c.l., l.t.l., works 100 lbs.16.25 -17.25
Sulfanilamide, NF X, 30-80 mesh, dms kilo. 3.05 - 3.50
NF X, microcrystals, dms. .. kilo. 3.79 - 4.20
NF X, powd., dms. ..... kilo. 2.85 - 3.30
Sulfanilamide quinoxaline, veterinary, dms kilo.16.28 - —
Sulfanilic acid, tech., dms., c.l., frt. alld lb. .21 - —
dms., l.c.l., frt. alld. ..... lb. .23 - —
Sulfapyridine, USP XV, powd., bots. tins kilo.15.45 -16.55
Sulfapyridine-sodium, monohydrate, dms kilo.16.55 -17.65
Sulfathiazole, NF X, powd., dms. kilo. 5.50 - 5.85
NF X, microcrystals, dms .. kilo. 6.25 - 6.60
Sulfathiazole-sodium, NF X, dms., 1,000-lb. lots or more lb. 2.35 - —

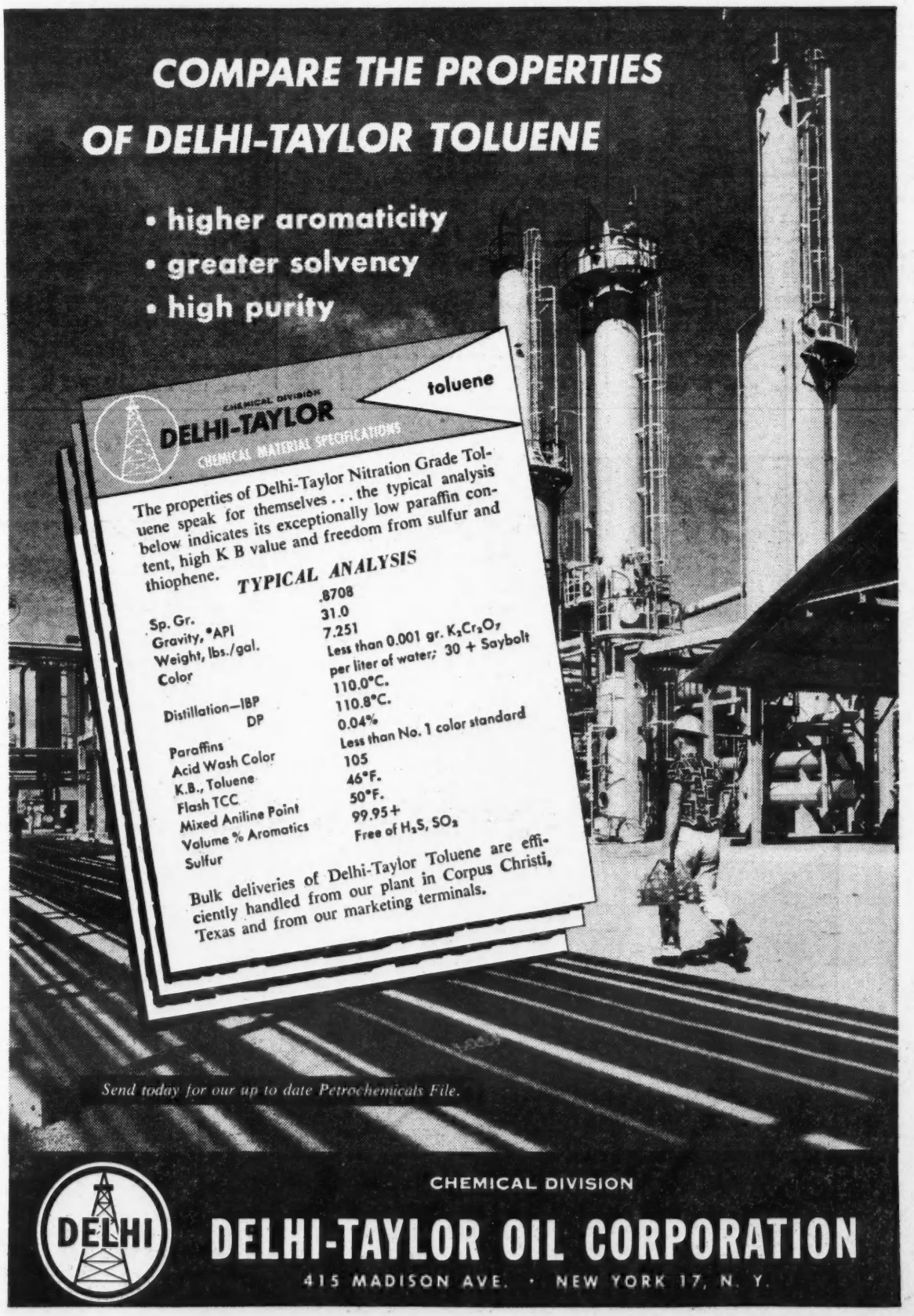
Sulfur, coml., flour, bgs., mines. 100 ... 2.35 - —
bbls., mines ..... 100 lbs. 3.30 - —
lump, bgs., mines ..... 100 lbs. 2.25 - —
bbls., mines ..... 100 lbs. 2.80 - —
Sulfur, crude, dom., bright, bulk, f.o.b. cars, mines long-ton.23.50 - —
Export, f.o.b. vessels Gulf ports long-ton.25.00 - —
US and Canada f.o.b. vessels Gulf ports. long-ton.25.00 - —
Domestic dark sulfur prices are $1 per long-ton lower
Sulfur, crude, bulk, imp., Mexican, filtered, f.o.b., vessel, Coatzacoalcos long-ton.24.00 - —
Mexican dark sulfur price is $1 per long-ton lower.
Sulfur, refd., flowers, NF, bgs., mines 100 lbs 5.15 - —
bbls., mines ..... 100 lbs. 6.50 - —
flour, light, bgs., mines 100 lbs. 4.75 - —
bbls., mines ..... 100 lbs. 5.75 - —
lump bgs., mines ..... 100 lbs. 4.45 - —
rolls, bgs., mines ..... 100 lbs. 5.00 - —
bbls., mines ..... 100 lbs. 5.75 - —
salt block, bgs., mines 100 lbs. 4.65 - —
virgin block, bbls., mines 100 lbs. 4.70 - —
Sulfur, rubbermakers, coml., reg., bgs., mines 100 lbs. 2.45 - —
bbls., mines ..... 100 lbs. 3.70 - —
98-100%, passing through 325 mesh, bgs., mines 100 lbs. 2.55 - —
bbls., mines ..... 100 lbs. 3.80 - —
refd., bgs., mines ..... 100 lbs. 4.40 - —
bbls., mines ..... 100 lbs. 5.55 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.75 - —
bbls., mines ..... 100 lbs. 4.00 - —

Sulfur dichloride, ret. dms., c.l., works, frt equald lb. .04½- —
ret. dms., l.c.l., same basis .. lb. .05¼- —
tanks, same basis ..... lb. .04 - —
Sulfur dioxide, liq., coml., cyls., works, frt. equald lb. .10 - .12
multi-unit cars, works .... lb. .0535- —
tanks, works ..... lb. .045 - —
Refrigeration, 150-lb. cyls., dlvd. lb. .33 - —
Sulfur monochloride, 55-gal. non-ret. dms., c.l., frt. equald lb. .04½- —
dms., l.c.l., same basis ..... lb. .05¼- —
tanks, same basis ..... lb. .04 - —
Sulfuric acid, 60° Be, cbys., c.l., works 100 lbs 2.00 - —
cbys., l.c.l., works .... 100 lbs. 2.30 - —
tanks, works ..... ton.18.60 - —
66° Be, cbys., c.l., works 100 lbs 2.25 - —
cbys., l.c.l., works ..... 100 lbs 2.55 3.35
tanks, works ..... ton.22.35 - —
98%, tanks, works ..... ton.23.50 - —
99%, tanks, works ..... ton.23.70 - —
100%, tanks, works ..... ton.23.95 - —
Sulfuric acid, CP, NF, consumers' cbys., c.l., frt. equald lb. .12¾- —
consumers' cbys., l.c.l., same basis lb. .14¼- .14¾
5-pt. bots., extra, cs., c.l., works, frt. alld lb. .16¼- —
5-pt. bots., extra, cs., l.c.l., same basis lb. .17¾- .18¾
Sulfuric acid, fuming (oleum), 20%, tanks, works ton.25.00 - —
40%, tanks, works ..... ton.29.00 - —
65%, tanks, works ..... ton.39.50 - —

Superphosphate, run-of-pile, under 22% a.p.a., pulv., bulk., c.l., Baltimore unit-ton .90 .93
bulk, c.l., Carteret, N. J. unit-ton .90 .93
bulk, f.o.b. vessel unit-ton 1.02 —
Superphosphate, triple, 48% or more a.p.a., pulv., bulk, c.l., East Tampa, Fla unit-ton .98 —
Sweet birch oil, USP, northern, cns lb 4.00 9.50
USP, southern, cns ..... lb 2.00 3.05

T

2,4,5-T, dms., c.l., works frt equald. lb 1.18 —
dms, l.c.l., same basis ..... lb 1.25 —
2,4,5-T isopropyl ester, dms., c.l., works, frt equald lb 1.24 —
dms., l.c.l., works ..... lb 1.29 —
Talc, dom., fibrous, New York, grd., bgs., c.l., works ton.28.00 —
bgs., l.c.l., works ..... ton.31.00 -36.00
fibrous, New York, 99.5%, 325 mesh bgs., c.l., works. ton.31.00 - —
bgs., l.c.l., works ton.34.00 - —
Talc, dom., fibrous, 99.95%, 400 mesh, micronized, bgs., c.l., works ton.38.00 - —
625 mesh, micronized, bgs., c.l., works. ton.80.00 - —
ord., Calif., gran., bgs., c.l., works ton.34.00 -39.50


COMPARE THE PROPERTIES
OF DELHI-TAYLOR TOLUENE
• higher aromaticity
• greater solvency
• high purity
toluene
CHEMICAL DIVISION
DELHI-TAYLOR
CHEMICAL MATERIAL SPECIFICATIONS
The properties of Delhi-Taylor Nitration Grade Toluene speak for themselves . . . the typical analysis below indicates its exceptionally low paraffin content, high K B value and freedom from sulfur and thiophene.
TYPICAL ANALYSIS
Sp. Gr. .8708
Gravity, °API 31.0
Weight, lbs./gal. 7.251
Color Less than 0.001 gr. $K_2Cr_2O_7$ per liter of water; 30 + Saybolt
Distillation—IBP 110.0°C.
DP 110.8°C.
Paraffins 0.04%
Acid Wash Color Less than No. 1 color standard
K.B., Toluene 105
Flash TCC 46°F.
Mixed Aniline Point 50°F.
Volume % Aromatics 99.95+
Sulfur Free of H_2S, SO_2
Bulk deliveries of Delhi-Taylor Toluene are efficiently handled from our plant in Corpus Christi, Texas and from our marketing terminals.
Send today for our up to date Petrochemicals File.
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DELHI
DELHI-TAYLOR OIL CORPORATION
415 MADISON AVE. · NEW YORK 17, N. Y.

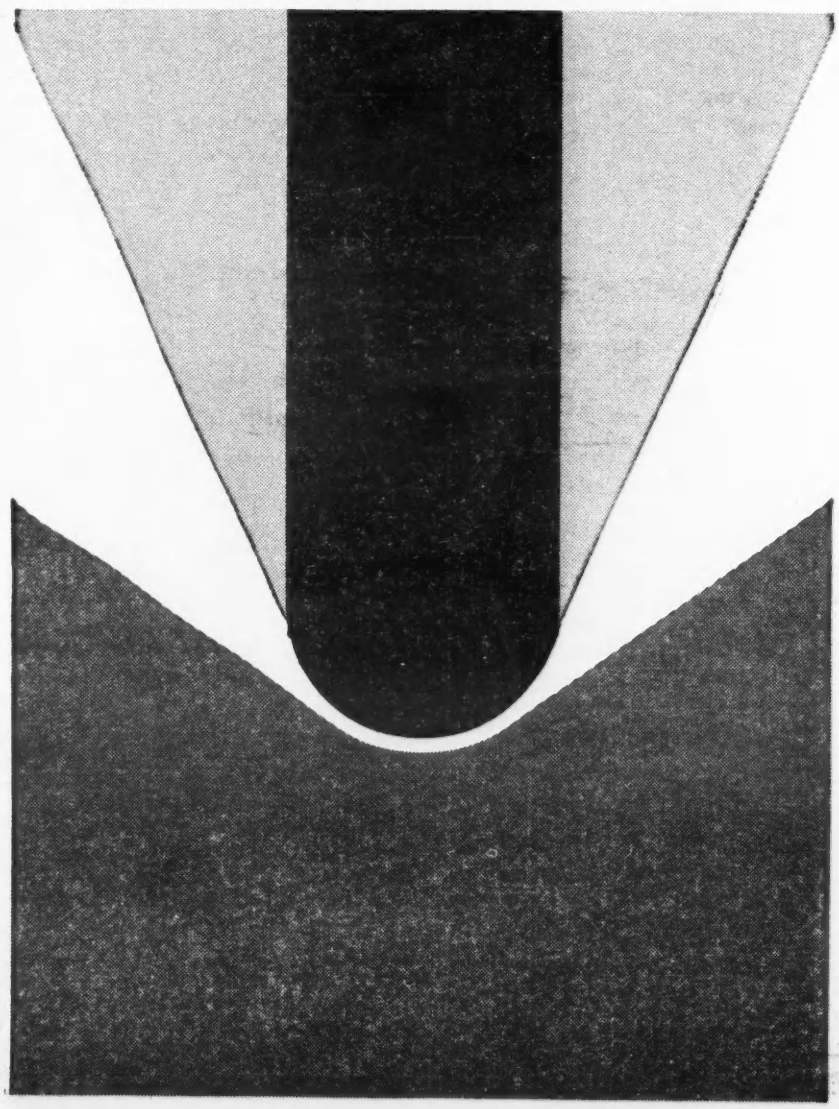
Talc–Tricresyl Phosphate

Talc, dom., Vermont, off-color, grd., bgs., c.l., works	ton.	1940	—
bgs., l.c.l., works	ton.	37.00	—
Imp., Canadian, grd. bgs., c.l., mines	ton	20.00	35.00
Tall oil, crude, dms. c.l. works	lb	.04¼	.04½
tanks, works	lb	.02¾	.03
Dist., dms. c.l., works	lb	.07¾	—
dms., l.c.l., works	lb	.08	.08½
tanks, works	lb	.06	.06½
Refd., dms. c.l. works	lb	.09¾	—
dms. l.c.l works	lb	.07	.07½
tanks, works	lb	.05½	.03
Tall oil acids, dms., c.l., works	lb.	.09	.12
dms., l.c.l.	lb.	.09½	.12½
tanks, works	lb.	.07	.10
Tallow, edible, tanks, dlvd.	lb.	.08½	Nom.
inedible, fancy, bleachable, tanks,	lb.	.06⅞	.07
fancy, guaranteed, dms., f.a.s.,	lb.	.08⅜	—
No. 1, tanks, dlvd.	lb.	.06⅜	—
prime, tanks, dlvd.	lb.	.06⅝	.06¾
special tanks, dlvd.	lb.	.06½	.06⅝
sulfonated 25% bbls., l.c.l.	lb.	.08⅜	.09⅜
50%, bbls., l.c.l	lb.	.10½	.11
Tallow acids, dist. dms	lb.	.14¼	.16¾
tanks	lb.	.11¾	—
Hydrogenated, dms	lb.	.15¾	.18¼
Tallow oil, acidless, dms. c.l.	lb.	.14½	—
dms. l.c.l	lb.	.15½	.17
Tangerine oil, Florida, dms.	lb.	3.10	4.00
Tankage, animal, feeding, 9-11% ammonia New York bulk,	unit-ton.	5.50	—
Animal, feeding, 9-11% ammonia, Chicago, bulk	unit-ton.	6.00	—
Tannic acid NF fluffy bbls. 1,000-lb lots	lb	2.05	—
bbls., smaller lots	lb.	2.06	2.07
NF, powd., bbls., 1,000-lb. lots	lb.	1.95	—
bbls., smaller lots	lb.	1.96	1.99
Tech. dms.	lb.	1.05	—
Tansy oil, dms	lb	7.50	9.50
Tar acid oil, 15-18% dms., c.l., frt. equald	gal.	.53½	—
dms., l.c.l., same basis	gal.	.55½	—
tanks, same basis	gal.	.43½	—
25-28% dms., c.l., same basis	gal.	.60	—
dms., l.c.l., same basis	gal.	.62	—
tanks, same basis	gal.	.50	—
Tar acid oil, 50-53%, dms., c.l., same basis	gal.	.75	—
dms., l.c.l., same basis	gal.	.77	—
tanks, same basis	gal.	.65	—
Tar coal (see Coaltar).			
Tartar emetic (see Antimony potassium tartrate)			
Tartaric acid, NF, 100-lb. bgs., c.l., frt. equald	lb.	.41	—
bgs., 10,000 lbs., 1 shipt., same basis	lb.	.43	—
bgs., smaller lots, same basis	lb.	.47	—
Terpine hydrate, NF, cryst., powd., 100-lb fib. dms	lb.	.70	—
Terpineol, extra, dms.	lb.	.50	.60
Prime, dms.	lb.	.40	.50
Terpinyl acetate, extra, cns., dms.	lb.	.64	.75
Prime, dms.	lb.	.53	.56
Terpinyl propionate, dms.	lb.	1.75	3.00
Terra alba (see Gypsum).			
Testosterone, USP, bots.	gram.	No prices.	
Testosterone proprionate, USP.	gram.	No prices.	
Tetrachloroethane, dms., works	lb.	.14½	—
Tetrasodium pyrophosphate (see Sodium pyrophosphate)			
Tetrachloroethylene tech (see Perchloroethylene)			
Tetrachloroethylene, USP, 55-gal. dms., c.l., t.l., works	lb.	.20½	—
dms., l.c.l. works	lb.	.22	.23½
Tetraethyl orthosilicate, dms., c.l., dlvd E	lb.	.60	—
dms., l.c.l., dlvd. E.	lb.	.61½	—
Tetraethyl pyrophosphate, 40%, cns., dms frt equald	lb.	.75	—
Tetraethylenepentamine dms., c.l., dlvd E	lb.	.53½	—
dms., l.c.l., dlvd. E.	lb.	.55	—
tanks, dlvd E.	lb.	.51	—
Tetraethylthiuram disulfide, tech., dms., frt alld	lb.	1.04	—
Tetrahydrofuran, dms c.l., t.l., works	lb	.36½	—
dms., l.c.l., or t.l.t., works	lb.	.37	—
tanks, works	lb.	.35	—
Tetrahydrofurfuryl alcohol, dms., c.l., t.l., Memphis, Tenn.	lb.	.31½	—
dms., l.c.l., Memphis, Tenn	lb.	.32½	—
dms., c.l., t.l., Newark, N.J	lb.	.33½	—
dms., l.c.l., Newark, N J	lb.	.34½	—
tanks, dlvd E. of Denver	lb.	.31	—
tanks, dlvd. W of Denver	lb.	.32	—
Tetrapotassium phosphate (see potassium phosphate).			
Thallium metal dlvd	lb	7.50	10.00
Thallium sulfate 99% bots. dlvd.	lb	5.00	10.00
Theobromine, NF, fib dms	lb	4.50	—
Theobromine and sodium acetate, USP, fib dms	lb.	4.75	—
Theobromine sodio-salicylate, NF, fib dms	lb.	3.90	—
Theophyline, USP, anhyd., 100-lb. dms., frt. alld	lb.	3.65	—
Thiamine hydrochloride, USP, fib. dms., frt. alld	lb.	4.36.00	—
USP, ampule grade, fib. dms., frt. alld	kilo.	38.00	—
Thiamine mononitrate, USP, fib. dms., frt. alld	kilo.	36.00	—
Thiocarbanilide, dms., ton lots	lb.	72	—
dms., less ton lots	lb.	74	—
Thiodiphenylamine (see Phenothiazine).			
Thioflavin green toner, brilliant, molybdated, PMA, kgs., works	lb.	5.20	—
Tungstated, PTMA, kgs., works.	lb.	6.20	—
Thioglycolic acid, refd., cbys., 100% basis	lb.	1.35	1.55
Thiosalicylic acid, purif., dms., 1,000-lb., lots, works	lb.	4.00	—
Thiourea, tech., bgs., t.l., frt. alld.	lb.	.30	—
bgs., ton lots, same basis	lb.	.32	—
bgs., less than ton lots, same basis	lb.	33	—
Thorium nitrate, purif., fib. dms., 100-lb. lots or more. works	lb	3.50	—
dl-Threonine bots., 1-kilo lots	kilo.	275.00	—
Thyme leaves, French, bgs.	lb.	.29	—
Spanish, bgs.	lb.	.14	—
Thyme oil, NF, red, cns., dms	lb	2.00	2.25
USP, white, cns.	lb	2.20	2.60
Tech., white, cns.	lb.	.40	1.85
Thymol, fib. dms.	lb.	2.60	3.00
Thymol iodide, NF, dms.	lb.	7.30	—
Timbo root (see Cube root).			
Tin chloride (see Stannous chloride, anhyd.).			
Tin crystals (see Stannous chloride, hydrous).			
Tin metal (straits)	lb.	1.03	—
Tin oxide (see Stannic oxide).			
Tin sulfate (see Stannous sulfate).			
Tin tetrachloride, anhyd. (see Stannic chloride anhyd.).			
Titanium dioxide, anatase, ceramic, bgs., c.l., dlvd	lb.	.25½	—
bgs., l.c.l., dlvd	lb.	.26½	—
reg., bgs., c.l., dlvd	lb.	.25½	—
bgs., l.c.l., dlvd	lb.	.26½	—
Titanium dioxide, anatase, metallurgical, nat., bgs., c.l., f.o.b. Jacksonville Fla	ton.	180.00	—
bgs., 5-ton lots, Niagara, Falls, N.Y	ton.	205.00	—
bgs., ton lots same basis.	ton.	215.00	—
Milled metallurgical titanium dioxide $7.50 per ton higher.			
Titanium dioxide, rutile, non-chalking, bgs., c.l., dlvd. E.lb.	lb.	.27½	—
bgs., l.c.l., dlvd. E	lb.	.28½	—
Titanium dioxide-calcium pigment, 30% Ti O_2, reg., bgs., c.l., dlvd	lb.	.09¾	—
bgs., l.c.l., works	lb.	.09⅞	—
Titanium dioxide-calcium pigment, 50% Ti O_2, high-tinting, dms. c.l.	lb.	.14⅜	—
dms., l.c.l.	lb.	.14⅞	—
Titanium hydride, powd., dms., works	lb.	8.10	9.00
Titanium tetrachloride, tech., dms., c.l., works	lb.	.26	—
dms., l.c.l., works	lb.	.27½	.29
tanks, works	lb.	.20	—
Tobias acid dms., c.l., t.l.	lb.	.78	—
dms., l.c.l.	lb.	.81	—
d-a-Tocopherols, mixed, NF, conc., pure basis, bots	kilo.	67.00	—
d-a-Tocopheryl acetate, NF, conc., pure basis, bots	kilo.	122.00	—
d-a-Tocopheryl acid succinate, cryst., bots	kilo.	109.00	—
dl-a-Tocopherol, bots	kilo.	99.00	—
dl-a-Tocopheryl acetate bots	kilo.	90.00	—
25% dry, powd., bots.	kilo.	22.50	-24.00
33% dry, powd., bots.	kilo.	30.00	-31.50
o-Tolidine base, dry, kgs., 100% basis	lb.	1.55	—
Paste, kgs., 100% basis	lb.	1.50	—

Toluol

Toluol quotations, both coaltar and petroleum, may be found under Toluene.

o-Tolidine hydrochloride, paste, kgs., 100% basis	lb.	1.50	—
Tolu balsam, cns	lb.	3.10	3.60
Toluene coaltar indust., or nitration, tanks, dlvd. E of Rockies	gal.	.25	—
Toluene, petroleum, indust., tanks, dlvd. E. of Rockies	gal.	.25	.32
p-Toluenesulfonamide, powd., dms., t.l., works	lb.	.60	—
dms., l.t.l., same basis	lb.	.63	—
Toluenesulfonic acid, dms., c.l., t.l., works	lb.	.17	—
dms., l.c.l., works	lb.	.18	—
p-Toluenesulfonic acid monohydrate, dms., c.l. or t.l.	lb.	.90	—
dms., 125 lbs. to t.l.	lb.	1.00	—
m-Toluidine, dms., c.l., works, frt. alld	lb.	.79	—
dms., l.c.l., same basis	lb.	.80	—
tanks, same basis	lb.	.78	—
o-Toluidine, dms., c.l., works, frt. alld	lb.	.30	—
dms., l.c.l., same basis	lb.	.31	—
tanks, same basis	lb.	.28	—
p-Toluidine, tech., flake, dms., frt. alld	lb.	.50	—
Cast, dms., frt. alld	lb.	.45	—
p-Toluidine-m-sulfonic acid, dms., kgs., works	lb.	.92	1.04
Toluidine red toner, deep shades, kgs., works	lb.	1.70	—
Light shades, kgs., works.	lb.	1.70	—
2,4-Tolylenediamine, cryst., fib. dms., l.c.l., frt. alld	lb	1.10	—
Tonka beans, Angostura, cks.	lb.	1.50	1.60
Brazilian, Surinam, cs.	lb.	1.25	1.30
Totaquine 100-oz. lots, cns.	oz.	.42	—
Toxaphene, dms. c.l., t.l., works.	lb	.22	—
dms., l.c.l., t.t.l., works	lb	.28	—
Tragacanth gum, No 1, ribbons cs	lb.	3.60	3.75
No. 2, cs	lb.	3.40	3.60
No. 3, cs	lb.	3.15	3.25
USP, powd., bbls.	lb.	1.05	1.15
Triacetin dms. c.l., dlvd. E of Rockies	lb.	.39	—
dms., l.c.l., same basis	lb.	.40	—
tanks, same basis	lb	.37	—
Triallylamine, dms., c.l., dlvd.	lb	.985	—
dms., l.c.l., dlvd.	lb	.995	—
tanks, dlvd.	lb.	.96	—
Tributyl citrate, tech., non-ret dms., c.l., frt alld E of Denver.	lb.	.42½	—
non-ret dms., l.c.l. frt alld. E. of Denver	lb.	.43½	—
tanks, frt. alld E of Denver	lb.	.40	—
Tributyl phosphate, dms. c.l., works.	lb.	.52½	—
dms., l.c.l., same basis.	lb.	.53½	—
tanks, same basis.	lb.	.50	—
Tributylamine dms., c.l., works	lb	.67½	—
dms., l.c.l., same basis	lb.	.69	—
tanks, same basis.	lb.	.65	—
Trichloroacetic acid, bots.	lb.	2.00	2.50
Trichlorobenzene, dms., c.l., frt. alld. E	lb.	.15	—
dms., l.c.l., frt. alld E.	lb.	.16	—
tanks, frt. alld. E.	lb.	.13¼	—
Trichlorobenzene prices in the West 1¾c. higher.			
1,1,1-Trichloroethane, dms., c.l., dlvd.	lb.	.13¼	—
dms., l.c.l., dlvd.	lb.	.16¼	—
tanks, dlvd.	lb.	.12¼	—
1,1,2-Trichloroethane, dms., c.l., works	lb.	.13½	—
dms., l.c.l., dlvd. E.	lb.	.14¼	—
tanks, works	lb.	.11½	—
Trichloroethylene, dms., c.l., or t.l., works, frt. equald	lb.	.13	—
dms., l.c.l., frt alld.	lb.	.15	.16¾
tanks, works, frt. equald.	lb	.12	—
Trichlorophenoxyacetic acid (see 2,4,5-T).			
Tricholine citrate, 65% soln., ret. chys., works, frt adjusted.	lb.	1.40	1.48
Tricresyl phosphate, coaltar, dms., c.l., dlvd	lb.	.35	—
dms., l.c.l., dlvd.	lb.	.36	—
tanks, dlvd.	lb.	.32½	—



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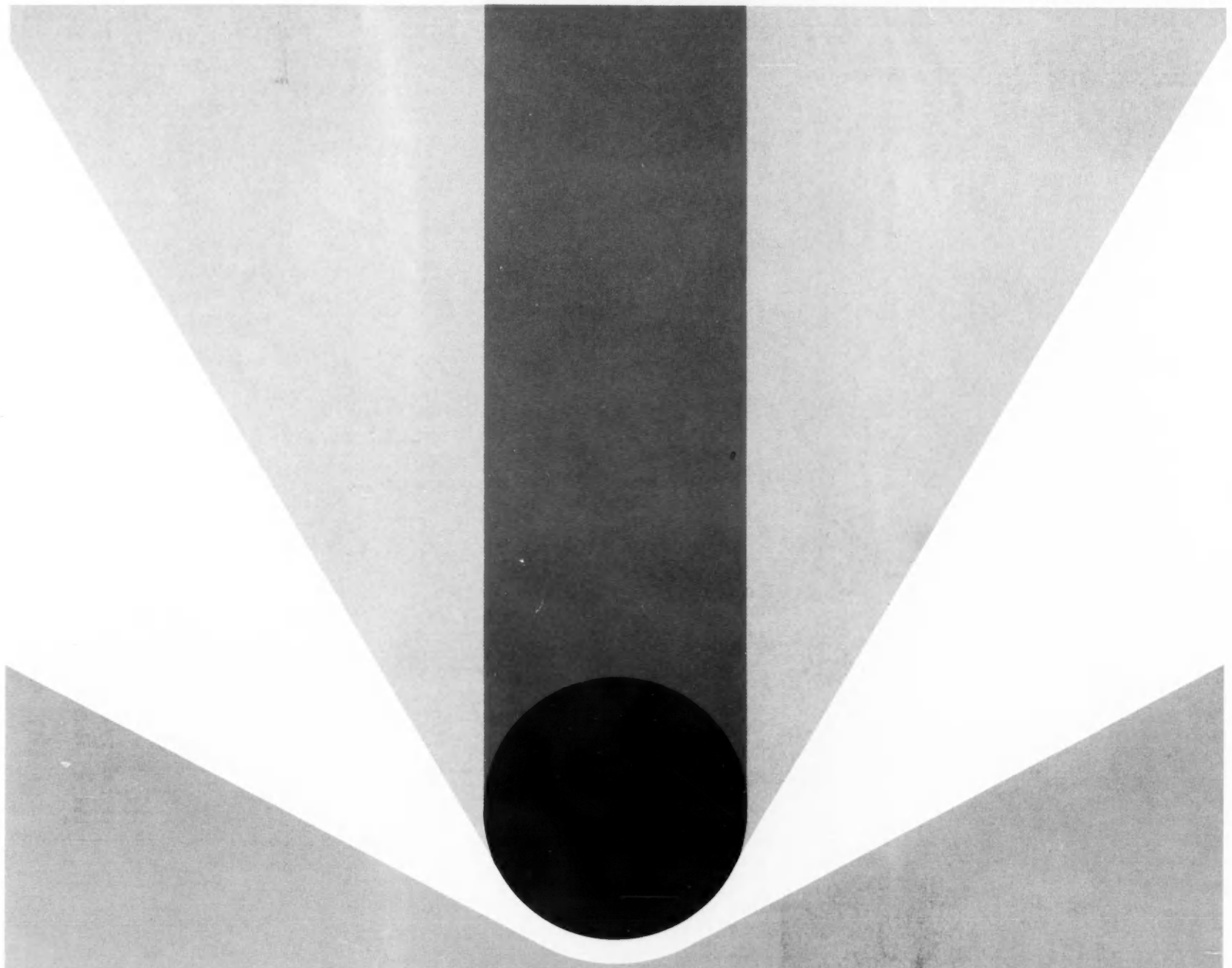

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30%,
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40%,
Vetiver

Tricresyl phosphate, petroleum, dms., c.l., dlvd. lb. .34½ - —
dms., l.c.l., dlvd. lb. .35½ - —
tanks, dlvd. lb. .32½ - —

Tridecyl alcohol, mixed isomers, dms., c.l., dlvd. E lb. .26½ - —
dms., l.c.l., dlvd. E lb. .28 - —
tanks, dlvd. E lb. .24 - —

Triethanolamine, dms. c.l., dlvd. E. lb. .24½ - —
dms., l.c.l., same basis lb. .26 - —
tanks, same basis lb. .22 - —

Triethanolamine lauryl sulfate, dms., c.l., t.l., frt. alld lb. .25½ - —
dms., l.t.l., frt. alld. lb. .26½ - —
tanks, frt. alld lb. .24½ - —

Triethylamine, dms., c.l., dlvd E. lb. .50 - —
dms., l.c.l., same basis lb. .51½ - —
tanks, same basis lb. .47½ - —

Triethyl citrate, refd., tech., non-ret dms., c.l., frt alld E. of Denver lb. .46¼ - —
non-ret dms., l.c.l., frt alld. E of Denver lb. .47¼ - —
tanks, frt alld E of Denver lb. .43¾ - —

Triethyl phosphate, dms. c.l., dlvd. lb. .40½ - —
dms., l.c.l., dlvd. lb. .41½ - —
tanks, dlvd. lb. .38 - —

Triethylene glycol, dms. c.l. dlvd. E lb. .21 - —
dms., l.c.l., dlvd. E. lb. .22½ - —
tanks, same basis lb. .18½ - —

Triethylenetetramine, dms., c.l., dlvd. E lb. .51½ - —
dms., l.c.l., dlvd. E. lb. .53 - —
tanks, dlvd. E lb. .49 - —

Triisopropanolamine, dms., c.l., dlvd. E lb. .23¼ - —
dms., l.c.l., dlvd. E. lb. .24¾ - —
tanks, dlvd. E lb. .20¾ - —

Trimethylamine, anhyd., cyls., l.c.l., frt equald. 100% basis lb. .30 .305
tanks, same basis lb. .26 - —
25-40% soln., dms., c.l., works, frt equald. 100% basis lb. .35 - —
dms., l.c.l. works, frt equald., 100% basis lb. .35½ - —
tanks, works, frt equald. 100% basis lb. .26 - —

Trimethylol propane, dms., c.l., t.l., dlvd. E lb. .39 - —
dms., l.c.l., t.t.l., same basis lb. .40 - —

Trioxane, pure, dms. c.l., t.l., works, lb. .50 - —
dms., l.c.l. works lb. .51½ - —

Tripentaerythritol, c.l., t.l., dlvd E. lb. .40 - —
bgs., l.c.l., t.t.l., dlvd, E. lb. .41 - —

Triphenyl phosphate, bbls., c.l., frt equald lb. .41½ - —
bbls. l.c.l. frt equald lb. .43½ - —

Triphenylguanidine, bbls. works lb. .90 - —

Tripropylene glycol, dms., c.l., t.l., frt. alld. E lb. .21 - —
dms., l.c.l., t.t.l., frt. alld. E lb. .22½ - —
tankcars and compartmented tankcars, frt. alld. E lb. .18½ - —

Tripropylene glycol, tankwagons and compartmented tankwagons, 1,000 gals. min., frt. alld. E lb. .19 - —

Tripropylene glycol prices 1c. per lb higher in West.

Trisodium phosphate (see Sodium phosphate tribasic).

dl-Tryptophane, 6lb., dms., works, lb. 55.00 - —

Tung oil, dms., c.l., New York lb. .24½ - —
dms., l.c.l., New York lb. .25½ - .25¾
tanks, New York lb. .23¼ - .23⅝
tanks, domestic mills lb. .22¾ - —

Tungsten metal, powd., 2.0-2.5 microns, dms., works lb 3.54 - —

Tungstic acid, tech., dms., 1,000-lb. lots, works lb. 2.25 - —
dms., smaller lots, works lb. 2.45 - —

Turkey red, bbls., works lb. .62 - —

Turpentine, gum (see Protective Coatings market, Naval Stores).

Turpentine oil, NF, cns., dms lb. .28 - .50

Tuscan red, bbls., frt. equald. lb. .26 - .32

Tyrothricin, USP, 1 to 5 kilos gram. .54 - —

U

Ultramarine blue, cobalt type, dry or pulp, 250-lb. bbls., dlvd. E. of Rockies lb. .35 - .39½

Ultramarine blue, jobbing types, bbls., same basis lb. .19 - —
Regular types, dry bbls., same basis lb. .22½ - .35

Ultramarine blue prices 1c. higher W. of Rockies.

Umber pigment, burnt, American, bgs., c.l., works lb. .07½ - .07¾
bgs., l.c.l., works lb. .07¾ - .08

Turkey-type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y. lb. .08¼ - —

Umber pigment, raw, American, bgs., works lb. .07¾ - .08¼
Turkey-type, bgs., works lb. .08½ - .08¾

Undecylenic acid, dms lb. 1.38 - —

Unicorn root, false (see Helonias root).

Unicorn root, true (see Aletris root).

Urea, 46% N, indust., bgs., c.l., t.l., dlvd. E ton. 125.00 - —
bgs., l.c.l. dlvd. E. ex whse. ton. 145.00 - —

45% N, agricultural, bgs., c.l., (30 tons) dlvd. E ton. 103.00 - —

Urea-ammonia liquor, A, B, C & F grades, N basis, tanks, frt. equal ton. 120.00 - —

37 grade, tanks, same basis ton. 145.00 - —

Urethane, USP, dms., t.l., f.o.b., works lb. .65 - —
dms., l.t.l., same basis lb. .70 - —

Uva-ursi leaves, bls. lb. .12 - —

V

Valerian root, Belgian, bgs. lb. .32 - —
Indian, bgs. lb. 25 - —

dl-Valine, dms., works lb. 21.00 -27.50

Vanadium pentoxide, tech., dms., works lb. 1.28 - 1.33

Vandyke brown, bbls., works lb. .09½ - .12

Vanilla beans, Bourbon, tins lb. 12.00 -12.50
Mexican, cuts, tins lb. 11.25 -11.75
whole, tins lb. 12.00 -12.50

Vanillin, ex lignin, 100-lb. fib. dms., 1,000-lb. lots or more lb. 3.00 - —
100-lb fib. dms., 500-lb. lots lb. 3.10 - —
100-lb. fib. dms., cns., 100-lb. lots lb. 3.25 - 3.35

Venetian red, jobbing, bgs., works, lb. .0475 - —

Venetian red, 20%, bgs., works lb. .0525 - —
25%, bgs., works lb. .0575 - —
30%, bgs., works lb. .06 - —
35%, bgs., works lb. .0625 - —
40%, bgs., works lb. .0675 - —

Vetiver oil, Bourbon, cns. lb. 12.00 -14.50

Vetiver oil, Haitian, cns. lb. 11.50 -13.50

Victoria blue toner, molybdated, PMA, 250-lb. bbls., dlvd. E of Rockies lb. 4.50 - —

Tungstated, PTA, 250-lb. bbls., dlvd. E of Rockies lb. 5.55 - —

Victoria blue toner, bbls., prices 1c. higher W. of Rockies.

Vinyl acetate monomer, zone 1, 55-gal. dms., c.l., dlvd lb. .20 - —
55-gal. dms., l.c.l., dlvd. lb. .21½ - —
tanks, dlvd. lb. .17½ - —
tanktrucks, less than 4,000 gal., dlvd lb. .18 - —
zone 2, 55-gal. dms., c.l., dlvd lb. .21 - —
55-gal. dms., l.c.l., dlvd lb. .24 - —
tanks, dlvd. lb. .18½ - —
tanktrucks, less than 4,000 gals., dlvd lb. .19 - —

zone 1 is all continental US except zone 2, zone 2 comprises Ariz., Calif., Idaho, Mont., Nev., Ore., Utah and Wash.

Vinyl n-butyl ether, tech., dms., l.c.l., works lb. .50 - —

Vinyl chloride monomer, tanks, works lb. .12½ - —

Vinyl ether, tech, dms, c.l., works, lb. .26 - —
dms., l.c.l., works lb. .28 - —
tanks, works lb. .25 - —

Vinyl ether USP, anesthesia, bots., 50cc., hospitals bot. 1.12 - —
bots., 75cc., hospitals bot. 1.56 - —

Vinyl ethyl ether, tech, dms., c.l., works lb. .29¼ - —
dms., l.c.l., works lb. .30 - —
tanks, works lb. .27¼ - —

Vinyl methyl ether, cyls, works lb .30 - —

Cylinders are sold outright, or if shipped against deposit, a free period of sixty days is allowed; and if empties are returned prepaid and in good condition within that period full refund is made.

Vinyl propionate monomer, dms., c.l., dlvd lb. .49 - —
dms., l.c.l., same basis lb. .50 - —
tanks, same basis lb. .47 - —

Vinyl trichloride (see Trichloroethane).

2-Vinylpyridine, 10 dms. to tanks, works lb. 1.20 - —
1 to 9 dms., works lb. 1.75 - —
tanks, works lb. 1.15 - —

Vinyltoluene, dms. c.l. f.o.b. works, lb. .16½ - —
dms., l.c.l., same basis lb. .18½ - —
tanks, f.o.b., dest. frt. prepaid lb. .14 - —

Viosterol, in oil, vegetable oil, 1,000,000 D units per gram, bots., lots of 10 billion USP units 1,000,000 units. .02½ - —

Virginia type red, bbls. works lb. 1.40 - —

Vitamin A acetate, syn. cryst., beads 500,000 A units per gram gram. .07¼ - —
dry, 500,000 units per gram, kilo lots kilo. 67.50 - —

Vitamin A acetate, syn., dry, 325,000 units per gram, same basis kilo 43.88 - —
250,000 units per gram, same basis kilo. 33.75 - —

*Dry vitamin A acetate in less than kilo lots, $2.50 per kilo higher in all potencies.

Vitamin A, liq. in oil, 1,000,000 A units per gram, 1,000,000 units .10 - —

Vitamin A palmitate, liq., 1,000,000-1,800,000 A units per gram 1,000,000 units .10 - —

Vitamin A palmitate, liq. in oil, 1,000,000 A units per gram, 1,000,000 units. .10 - —

Vitamin B, (see Thiamine hydrochloride).

Vitamin B_2 (see Riboflavin and Yeast).

Vitamin B_{12}, cryst., USP 1-50 grams, vials, tins gram. 139.00 - —
1% vitamin B_{12} USP, adsorbed on resin, 100 and 500-gram bots, 2-5 kilo dms. gram. 1.65 - —
0.1% cyanocobalamin in gelatin, 1-10 kilo dms., frt. alld gram. 1.65 - —

Vitamin B_{12}, oral grade solids, in containers of 1 and 10 gram of B_{12} activity, gram. 128.00 -

0.1 percent trituration of cryst. B_{12} with dicalcium phosphate or mannitol, 1-10 kilo. 160.00 - —

Vitamin B_{12}, 1% cobalamin concentrate NF, adsorbed on resin, 500-gram bots., 1-5 kilo dms., frt. alld gram. 1.33 - —

0.1% cobalamin concentrate in gelatin, 1-10 kilo dms., frt. alld. gram. 1.33 - —

Vitamin C (see Ascorbic acid).

Vitamin D (see Codliver and Fish-liver oils, Calciferol and Viosterol).

Vitamin D_2, dry, 850,000 units per gram, kilo lots kilo. 42.50 - —
850,000 units per gram, less than kilo lots kilo. 45.00 - —

Vitamin E (see a-Tocopherol and Wheat germ oil).

Vitamin G (see Riboflavin).

Vitamin H (see Biotin).

Vitamin K, active (see Menadione).

Vitamin K$_1$, 25 gram bots gram. 4.50 —

Violet methyl toner (see Methyl violet toner).

VM&P naphtha (see Naphtha, VM&P, petroleum).

W

Wahoo root bark, bls. lb. 2.25 - 2.50

Warfarin, 0.5%, dms., 50-lb. lots, dlvd lb. 1.95 - —
dms., 25-49-lb. lots, New York or Chicago lb. 2.05 - —
dms., 5-24-lb. lots, New York or Chicago lb. 2.15 - —

Watchung-type reds, bbls. lb. 1.95 - —

Waxes

Wax quotations are listed individually. For example, prices on Wax, carnauba, may be found in the C's under Carnauba wax.

Wheat germ oil, 5-gal. dms gal. 12.25 - —
Wheat starch (see Starch, wheat).
White lead (see Lead, white).
White mineral oil (see Mineral oil, white).
White pine bark, rossed, bls. lb. .16 - .20
White precipitate, USP, powd., dms., lb. 6.55 - —
Whiting (see Calcium carbonate)
Wild cherry bark, thin, nat., bls. lb. .16 - .20
Thin, rossed, bls lb. .21 - —
Wintergreen oil, USP, nat., northern, cns lb. 6.35 -17.50
USP, nat., southern, cns lb. 3.75 - 7.00
Wintergreen oil, syn. (see Methyl salicylate).

Witch hazel bark, bls. lb. .16 - .17
Witch hazel leaves, bls. lb. .22 - —
Wollastonite, fine, bgs., c.l., works, ton. 39.50 - —
bgs., l.c.l., ex whse. ton. 56.00 - —
Medium, bgs., c.l., works ton. 27.00 - —
bgs., l.c.l., ex whse. ton. 44.00 - —
Wood alcohol (see Methanol).
Wood oil (see Tung oil).
Woolfat, crude (see Degras).
Woolfat, USP (see Lanolin).
Wormseed, Levant, bgs lb. 2.50 - —
Wormseed oil (see Chenopodium oil, NF).
Wormwood oil, ens. lb. 4.75 - 5.00

X

Xylene, coaltar, indust., tanks, works:
Bethlehem, Pa. gal. .29 - —
Birmingham dist. gal. .29 - —
Chicago dist. gal. .28½ - —
Cleveland dist. gal. .29 - —
Geneva, Utah gal. .29 - —
Johnstown, Pa. gal. .29 - —
Lackawanna, N. Y. gal. .29½ - —
Lone Star, Tex. gal. .27 - —
Lorain, Ohio gal. .29 - —
Middletown, Ohio gal. .30 - —
Minnequa, Col. gal. .29 - —
Philadelphia dist gal. .29 - —
Pittsburgh dist gal. .29 - —
Sparrows Point, Md. gal. .29 - —
Terre Haute, Ind. gal. .29 - —
Youngstown, Ohio gal. .29 - —

Xylene, petroleum, indust., tanks, f.o.b. works:
Bayonne, N. J. gal. .29 - —
Baytown, Tex. gal. .27 - —
Charleston, S. C. gal. .29 - —
Chicago, Ill. gal. .28½ - —
Detroit, Mich. gal. .29 - —
Houston, Tex. gal. .27 - —
Philadelphia, Pa. gal. .29 - —
Providence, R. I. gal. .30 - —
Sewell's Point, Va. gal. .28 - —
Wood River, Ill. gal. .28½ - —

Xylenol, cryst., 45°-47° C., m.p., dms., l.c.l., works lb .23 - —
56°-58° C., m.p., dms., l.c.l., works, frt equald lb. .33 - —
60°-62° C., m.p., dms., l.c.l., same basis lb .40 - —

Xylenol fraction, b.r. 7°-9° C., dry above 227° C. dms., c.l., same basis gal 1.25 - —
dms., l.c.l., same basis gal 1.40 - —
tanks, same basis gal 1.05 - —

Xylenol fraction, b.r 7°-9° C., dry at or below 227° C., dms., c.l., same basis gal 1.55 - —
dms., l.c.l., same basis gal 1.40 - —
tanks, same basis gal 1.15 - —

2,4-Xylidine, tech., dms. frt. alld. lb. 1.15 - —

2,5-Xylidine, tech., dms. frt. alld. lb. 1.20 - —

Xylidines, mixed, o-m-p, dms., c.l., or t.l., works lb .39 - —
dms., l.c.l., same basis lb .40 - —
tanks, same basis lb .38 - —

Xylol

Xylol quotations, both coaltar and petroleum, may be found under Xylene.

Y

Yara yara oil, cns. lb 2.15 3.05

Yeast, brewers, debittered, USP, Saccharomyces dlvd lb .27 - —

Yeast, brewers, dry, USP, 50 Int'l B units per gram, 100-lb. dms lb. .47 - —

USP, 90 Int'l B units per gram, 100-lb dms lb. .52 - —

USP, 200 Int'l B units per gram, 100-lb. dms lb .56 - -

USP, 300 Int'l B units per gram, 100-lb. dms lb. .60 - —

Torula, USP, dlvd lb .18 - —

Yellow Pigments

Yellow pigment quotations are listed individually. For example, prices on Yellow, benzidine, may be found in the B's under Benzidine yellow.

Yerba santa leaves, bls. lb. .50 - .55

Ylang-ylang oil, Bourbon, bots. lb. 7.00 -22.00
extra, bots. lb. 28.00 -33.00

Yohimbine hydrochloride, bots., tins, oz. 3.75 - 4.25

Z

Zein, bgs., 36,000-lb. lots or more, bgs., 500-lb lots or more, dlvd. lb. .343 - —
bgs., smaller lots, dlvd lb. .373 - —

Zinc acetate, NF, VIII, dms. lb. .53 - —
Tech., dms., l.t.l., works lb. .29¾ - —

Zinc borate, bgs., 1,000 lbs or more, works lb. .23 - —
bgs., less than 1,000 lbs. same basis lb. .25 - —

Zinc chloride, NF, gran., dms lb. .42 - —
NF, precip., powd., dms lb. .26 - —
Tech. soln., 50%, dms., c.l., works, 100 lbs 5.80 - —
dms., l.c.l., works 100 lbs 6.40 - —
tanks, works 100 lbs 5.15 - —

Zinc chloride, tech., fused, dms., c.l., works 100 lbs. 10.70 - —
dms., l.c.l. works 100 lbs. 11.20 - —

Zinc chloride, tech., gran., dms., c.l., works 100 lbs. 11.45 - —
fib. dms., l.c.l., works 100 lbs. 11.95 - —

Zinc chromate, bbls., dlvd. lb. .29 - —

Basic, bbls., dlvd. lb. .34 - —

Zinc cyanide, dms., 1,000-lb. lots or more, works lb. .55 - —
dms., smaller lots, works lb. .57 - —

Zinc dust, coml., bbls., c.l., works, lb. .1460 - —
*Pigment, bbls., c.l., works lb. .15 - —
bbls., l.c.l., works lb. .16 - —

Zinc fluoride, bbls., works lb. .49 - .50

Zinc hydrosulfite, dms., c.l., frt. alld lb. .21½ - —
dms., l.c.l., frt. alld. lb. .23½ - —

Zinc metal, prime western, slabs, E. St. Louis lb. .11 - —
Prime western, slabs, New York, lb. .11½ - —

Zinc naphthenate, liq., 8% Zn., dms., frt. alld lb. .27 - —
10% Zn., dms., frt. alld lb. .33 - —

Zinc nitrate, tech., cryst., bbls., works lb. .20 - —

Zinc oxide pigment, American process, lead-free, bgs., c.l., frt. alld lb. .14½ - —
bgs., l.c.l., 10 tons or more, same basis lb. .15 - —
bgs., l.c.l., smaller lots, same basis lb. .15½ - —

Zinc oxide pigment, American process, leaded, 35%, bgs., c.l., mills, frt. alld lb. .15¼ - —
bgs., l.c.l. 10 tons or more, same basis lb. .15⅝ - —
leaded, 50%, bgs., c.l., same basis lb. .15⅞ - —
bgs., l.c.l., 10 tons or more, same basis lb. .15⅞ - —
bgs., l.c.l. smaller lots, same basis lb. .16⅜ - —

Zinc oxide pigment, French process, green seal, bgs., c.l., mills, frt. alld lb. .16¼ - —
bgs., l.c.l., 10 tons or more, same basis lb. .16¾ - —
bgs., l.c.l., smaller lots, same basis lb. .17¼ - —
red seal, bgs., c.l., same basis, lb. .15¾ - —
bgs., l.c.l., 10 tons or more, same basis lb. .16¼ - —
bgs., l.c.l., smaller lots, same basis lb. .16¾ - —
white seal, bgs., c.l., same basis lb. .16¾ - —
bgs., l.c.l., 10 tons or more, same basis lb. .17¼ - —
bgs., l.c.l. smaller lots, same basis lb. .17¾ - —

USP, dms., c.l., frt. alld lb. .18¼ - —
dms., l.c.l., 10 tons or more, same basis lb. .18¾ - —
dms., l.c.l., smaller lots, same basis lb. .19¼ - —

Zinc phenolsulfonate, NF, gran., dms lb. .45 .48
NF, powd., dms lb. .48 .52

Zinc resinate, precip., 7.2-7.6% Zn., dms., frt. alld lb. .36¼ - —

Zinc silicofluoride, dms., works lb. .12½ .14

Zinc stearate, tech. USP, cns., c.l., lb. .41 - —
cns., l.c.l lb. .42 .46

Zinc sulfate, powd., monohydrate, 36% Zn., bgs., c.l., dlvd. E 100 lbs. 8.75 - —
bgs., l.c.l., dlvd. E 100 lbs. 9.75 - —
USP, gran., dms. lb. .26 - —
Zinc sulfate in bbls 40c. higher.

Zinc sulfide pure, bgs., c.l., dlvd lb. .2530 - —

Zinc undecylenate, dms lb. 2.00 - —

Zinc yellow (see Zinc chromate).

Zinc-ammonium chloride, bgs., c.l., works 100 lbs. 10.25 - —
bbls., c.l., works 100 lbs. 10.85 - —
bbls., l.c.l., works 100 lbs. 11.35 - —

Zinc-formaldehyde sulfoxylate, basic, 300-lb. dms., frt. alld lb. .26 - —
normal, 250-lb. dms., frt. alld lb. .52 - —

Zircon (G), gran. bgs., c.l., works, lb. .03¼ - —
bgs., 5 tons to c.l., works lb. .03¾ - —
bgs., 1 ton to 9,999-lb. lots, works, lb. .04 - —
bgs., smaller lots works lb. .04½ - —
milled, bgs., c.l., works lb. .04¼ - —
bgs., 5 tons to c.l., works lb. .04¾ - —
bgs., 1 ton to 9,999-lb. lots, works lb. .04¾ - —
bgs., 500-1,999-lb lots, works lb. .07½ - —
Zircon (G) in barrels 1c. higher.

Zirconium acetate, sols., 13% ZrO_2, dms., c.l., 30,000 lbs. min., works lb. .23 - —

Zirconium hydride, powd., electronic grade dms., works lb. 14.00 -15.00

Zirconium oxide, CP, white, grd., bbls. or bgs., works lb. 1.50 - —

Zirconium oxide, electric-fused, lump, bgs., 500 to 1,999-lb. lots, works lb. .45½ - —
bgs., smaller lots, works lb. .43 - —
milled, bgs., c.l., works lb. .59 - —
bgs., 5-ton lots, works lb. .59½ - —
bgs., 1-ton to 9,999-lb. lots, works lb. .60 - —
bgs., 500 to 1,999-lb lots., works lb. .60½ - —
bgs., smaller lots, works lb. .63 - —

Glass polishing grade, 94-97% ZrO_2, bgs., works lb. .55 .65

Opacifier grade, 83-90% ZrO_2, bgs., lb. .27 .50

Stabilized oxide, 91% ZrO_2, milled, bgs lb. .62 .85

Zirconium oxychloride, cryst., cns., 5-ton lots, works lb. .35½ - —

Oils, Wheat

—Continued from page 4

ern utilization research and development division, Peoria, Ill.

Although vinyl ether films still are in the laboratory stage of development, the scientists have demonstrated that these films adhere especially well to black iron and aluminum. Discs stamped from metal covered with the films were formed into lids or ends and crimped into place on can bodies without breaks in the films.

To make the new film materials, northern division chemists reacted fatty alcohols—commercially produced from soybean and linseed oils by chemical reduction sodium—with "welding-grade" acetylene to produce vinyl ethers. Molecules of the vinyl ethers were joined together by another chemical reaction—polymerization—to produce "giant" molecules, which make up the new film-forming materials.

The vinyl ether polymers and copolymers are colorless to pale-yellow, viscous liquids that cure by baking or air drying to form almost colorless to amber films. Hardness, chemical resistance, and other film properties vary—depending upon the parent oil, method of curing, and added ingredients.

It is at the Peoria lab, also, that the modified wheat flour research has been going on. One team of scientists has reacted wheat flour with ethylene oxide to produce "hydroxyethylated flours." Another team has employed propylene oxide as the reactant to make "hydroxypropylated flour."

Oil, Paint and Drug Reporter

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A LOOK AT THE FIGURES

Chemicals Production: How It's Going

		April 1959	April 1958
Acetic Acid, Synthetic	lbs.	45,795,742	39,124,530
Acetone	lbs.	61,032,628	45,556,176
Ammonia, Anhydrous	tons	400,156	329,837
Benzene	gals.	32,175,989	19,350,112
Chlorine	tons	341,549	277,527
Formaldehyde (37% basis)	lbs.	144,116,514	98,318,798
Methanol, Synthetic	lbs.	125,157,840	109,096,311
Phthalic Anhydride	lbs.	33,315,623	24,090,152
Sodium Hydroxide (Caustic Soda 100% NaOH)	tons	375,887	370,911
Sulfuric Acid (100% H_2SO_4)	tons	1,595,879	1,296,892

Sources: Tariff Commission, Bureau of Census

Foreign Trade Potentials

There is indeed much significance of very broad extent in the congressional study of world market prices discussed in "Washington Talks It Over" last week. The nature of that significance will be determined in large measure by interpretations of available data. The Commerce department's report referred to in the talk, whatever it may have had to say about the relativity of imports and exports, has been reported in the public press to have said that the US balance of payments position—the country's standing in financial dealings with the rest of the world—improved in the January-March quarter for the first time in eighteen months, and although US payments to other countries continued to exceed US receipts from other countries, the deficit, at an annual rate, was 8.2 percent less than that for the last quarter of 1958.

Those who are interested in significances re foreign trade should get up to their ears in attention to the twenty-nine-nation conference on foreign trade scheduled by the UN Economic Commission for Europe. The United States will have a four-man delegation in that conference, one member of which will be a business executive who has been named as an adviser by the Department of State.

Obviously one of the big topics of the UN conference will have to do with the present and future actual and potential influences of the variously expanding European trade union on commodities, prices and trends in world trade. That is likely to have more of a political than a strictly commercial interest and motivation: Participation by the US should be far more representative of private enterprise, at least in an advisory capacity, than the four-man official delegation is.

US business should do its best to be properly represented on the sidelines at that international conference. And it should make the most of that opportunity to develop more and more actual working relations with members of the business populations of the other twenty-eight nations. The much discussed leadership in world affairs which this country should be qualified and willing to exercise should be built up on and by way of trade, not politics.

Avoiding Inflation

President Eisenhower has made public in part a special report on inflation. It was prepared by a committee composed of the Vice-President, the heads of at least four Cabinet departments and two economic advisers. He said that a copy of the report was being sent to each member of congress.

The committee's basic position was set forth in warnings that the national economy was "at a critical juncture"; that the "danger signs of inflation cannot be ignored," and that the country's" ability to keep prices reasonably stable would be "seriously threatened unless affirmative action is taken now." It also voiced a warning on expectable increases in wages; but it ruled out controls of wages and prices, asserting that "such controls would do more harm than any amount of inflation that we have ever experienced or are likely to experience in peacetime."

That is—at least as it applies to prices—regarded by many as one of the reasons why the chairman of the congressional economic committee said that the report was a "thoroughly milktoast affair." Another reason for such an attitude on the part of the majority party in congress can be found in the committee's recommendation that congress "vigorously resist proposals to boost federal spending" over the next several years.

The committee put the inflation situation up to congress, with at least an intimation of blame and a definite declaration that that body adopt the recommendations made to it by the President several months ago, setting up a federal policy of "governmental application of appropriate means to protect the buying power of the dollar," removing the present ceiling of 4.25 percent on interest on government bonds and providing a balanced federal budget and reduction of the national debt.

Those are desirable objectives. But, the leaders of the majority party in congress have their own ideas on such things. They have already come back with declarations that the inflation shoe is on the other foot—the President is to blame, and congress will continue to trim down the appropriations which he seeks—and, they don't say, inflate others of their seeking. They have vigorously urged that the President and his administrative officials and legislative supporters give due recognition and acceptance to "sound proposals" for plugging tax loopholes. That is a good proposal; so would be one for putting an end to featherbedding in various areas of employment—including congressional members' staffs.

The avoidance of the threat of economically disastrous inflation is not going to get very far by way of politics. It is as important and as urgent as the cabinet committee says it is. It is a job to which private enterprise as a whole—stockholder, management and labor—must apply all of its capability seriously and effectively—now.

Contact the Consumer

What the Food and Drug Administration commissioner had to say in his talk to the convention of food and drug officials, as reported in OPD on page 4 last week, was right in line with what has been suggested here on numerous occasions: In the determination of productive and distributive policies, consideration of the consumer is of foremost and utmost importance. The promotion of a product is far more wisely and successfully based upon what the consumer wants and should get than upon how he or she can be induced to accept what is offered.

As the FDA commissioner pointed out, the consumer is steadily advancing in the push of his or her desire and right to be satisfied and assured by way of legislative requirements. A much preferable practice would be based on a desire by producer and distributor to deal directly with potential consumers in a person-to-person manner. Their organizations at all levels should advocate and conduct suitable conferences and other contacts with consumer groups, with no concern for the latters' organizational status. The contacts will be far more successful if they are primarily social rather than commercial. And their satisfactory arrangement can best be approached with the advice and assistance of retail suppliers who are similarly motivated.

In the preparation of programs for such conferences, the last thing to be considered is "What are we going to tell these people?" The laws having to do with labeling and advertising require that certain information be provided. One thing to tell the guests is that the host is endeavoring to do all that those laws require—and to find out if those provisions are satisfactory. It does not follow that the guests as a group or individually should be told everything that they may express a desire to know. That is where business diplomacy comes in- the basic qualification in what really is public relations in the functioning of private enterprise.

Washington Talks It Over

Chemical Industry Came Near Losing Its Voice in the Government All Because a Subcommittee Was a Little Overzealous and Tried to Save Some Money for the Taxpayers.

By Ralph L. Cherry
Washington Editor

The chemical industry came near losing its voice in the government again last week, all because of another tangle in funds for the Commerce department created by an overzealous appropriations subcommittee trying to save money for the taxpayers.

While the industry is not yet completely out of the woods on the issue, at this writing there are promises from all sides that the matter will be taken care of.

It happened this way: As the chemical industry well knows, its principal access route to the inner workings of the government is via the chemical and rubber division of the Business and Defense Services Administration. This is the agency that picked up the scraps of the old National Production Authority and has been doing most of the spade work on defense mobilization under guidelines laid down by the Office of Civil and Defense Mobilization.

Last year, the house appropriations committee decided that there was too much mingling of defense mobilization money with the regular funds of government departments and they were instructed to bring in only budgets for their regular functions.

The defense money would be put in a supplemental bill. Commerce followed instructions and BDSA was given $1,819,000 for its regular work—about half of what it normally would have received.

When the other departments separted their budgets, the amounts claimed for defense far exceeded anything the committee expected and members figured that there was too much padding going on and threw out the entire supplemental appropriation, telling the departments to pay for defense expenditures out of their regular funds.

For BDSA this meant it would have to reorganize completely, wipe out its industry division, stop its industry surveys and work on tariffs for the Geneva conferences, and limit itself almost entirely to the more essential duties of defense planning.

Chairman Albert Thomas of Texas, in charge of the supplemental bill, saw the light after a few well-placed phone calls to his office and has promised to restore BDSA's defense fund of $1.7 million to the bill when it goes to congress.

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COBALAMIN N.F. SOLUBLE GRADE
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D CALCIUM PANTOTHENATE
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Heavy Chemicals

Borax and boric acid were raised July 1 in line with announcements made by the three major producers some time ago. Anhydrous borax went up $4.50 per ton, granular decahydrate $2.50 and pentahydrate $1.50, while the acid was raised $3.50 across the board. The move was triggered by higher costs of labor and equipment, mostly labor, sources in the trade reported. The early announcement gave consumers the opportunity to stock up on material at the old prices, and informal reports on second-quarter sales indicated that the opportunity had not been passed up.

The now-strong possibility that steel's wage problems may be settled without a strike has raised a new question: With a strike no longer impending will there be a downturn in steel demand as consumers work-off accumulated inventories? The consensus among sources contacted by this department was that there would be such a retreat but that it would not be sharp enough to have much affect on related chemicals. It was felt that a decline of as much as twenty percent in steel output could be taken in stride by suppliers to that industry.

With a holiday approaching, nonferrous metals met lackadaisical demand last week but held on to a steady price tone, except for tin which declined. Acids continued to move in heavy volume against contract as did most of the bases and salts. Exceptions to this were aluminum sulfate and other paper industry raw materials, sales of which were confined to prompt needs.

The American Paper and Pulp Association reported production for the week ended June 27, at 94.7 percent of theoretical capacity as compared with the revised figure of 96.3 percent for the previous week, and 88.0 percent for the corresponding week of last year.

Price Trends

Advanced

Borax, anhydrous, $4.50 per ton.
Granular, decahydrate, $2.50 per ton.
Granular, pentahydrate, $1.50 per ton.
Boric acid, crystalline and granular, $3.50 per ton.

Reduced

Tin, straits metal, ¾c. per lb.
Tin salts, ½c. to ⅝c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	July 3, 1958
107.35	107.28	107.40	104.40

For Current Prices see page 9

Acids

Boric—July 1 brought price advances for all grades. Crystalline material was raised $3.50 per ton to $163.50 in carlots and granular by that amount to $112 in carlots and $106 in bulk. Smaller quantities were similarly changed.

Hydrofluoric—The possibility that the wage problems in steel may be settled without a strike has raised a new question: Will there be a downturn in steel demand with a strike no longer impending? The consensus among sources contacted by this department was that there would be a retreat in steel demand but that it would not be of such magnitude as to have much effect on materials going into steel production. It was pointed out, for example, that about six percent to seven percent of hydrofluoric acid goes into steel pickling, which means that even a decline of 20 percent in steel would only affect that acid by about 1 percentage point.

Sulfuric—American Iron and Steel Institute estimated steel output at 2,486,000 tons during the week beginning June 22, or 87.8 percent of capacity, and predicted an output of 2,405,000 tons for last week, which would be only 84.9 percent of capacity.

Bases and Salts

Aluminum Sulfate—With the paper industry, which accounts for about 65 percent of alum consumption, preparing for July and August plant shutdowns, the market has slowed down quite a bit. Apparently the paper makers prefer to coast on inventories now rather than have them sit around during the shutdown.

Borax—The promise of higher prices that was made several months back was fulfilled July 1, on schedule. Anhydrous was raised $4.50 per ton to $92 in carlots and $83 in bulk, while granular was increased $2.50 for decahydrate to $50 in carlots and $43.50 in bulk, and $1.50 for pentahydrate to $64.50 in carlots and $58 in bulk. Smaller quantities were raised by like amounts. This move, like most upward ones, was touched off by mounting costs of labor.

Caustic Soda—Current buying centers on immediate needs, making for a highly active though not necessarily heavy-volume market. Emphasis on prompt shipment stems, of course, from the approaching vacation periods.

Hydrogen Cyanide—Effective July 1, the liquid grade of this material was reduced 2c. from 16c. to 14c. per pound in tankcars, f.o.b. shipping point. The company making the change said that it was a move to stimulate wider usage of the material.

Sulfur—Domestic industry produced 390,757 tons of native sulfur and 48,929 tons of recovered sulfur in April, according to Bureau of Mines data. Producers' stocks of native sulfur declined from the previous month's level, closing at 4,248,242 long tons.

	March	April
Native production	373,599	390,757
Shipments	413,530	480,926
Sales*	423,746	467,925
Stocks†	4,325,410	4,248,242
Recovered production	58,546	48,929
Shipments	61,325	58,335
Sales*	60,041	56,851
Stocks†	177,527	169,605

* Calculated from production and change in stocks during the period.
† Producers' stocks at mines or plants in transit, and in warehouse at end of period.

The following figures, compiled by the Bureau of Mines, show imports of Mexican sulfur into the United States during specified periods.

Long Tons	March	April
Ore	.....	.....
In any form	43,228	56,404
Total	43,228	56,404

Dollar Value	March	April
Ore	.....	.....
In any form	$921,602	$1,203,396
Total	$921,602	$1,203,396

Nonferrous Metals

Aluminum—A record-high total of 157,189 short tons of primary aluminum was produced in March, according to the Bureau of Mines' latest survey. Measured against February's total this was an increase of 11 percent, the Bureau noted. Shipments for the month were tallied at 181,839 short tons, which brought the first quarter total to 442,914 tons, an increase of 17 percent over the corresponding quarter of 1958 and of eight percent over the last period of that year.

In another Bureau of Mines report, January shipments of aluminum-base scrap were tallied at 36,295 short tons, a decline of five percent from the previous month. Production of aluminum alloys by secondary smelters, it was noted, declined nine percent to 22,722 tons while shipments from that source held virtually unchanged at 24,206 tons. Use of new scrap was said to have dropped 1,300 tons and of old scrap 700 tons. Scrap receipts dropped 5,000 tons from the level of the previous month, while stocks declined by 3,000 tons to total 24,000 at month's end.

Of the January consumption total, independent smelters used 27,609 short tons, or 76 percent, primary producers 5,329 tons, or 15 percent and foundries and miscellaneous 3,357 tons, or nine percent. Metallic recovery was calculated at 29,981 tons, 23,498 from new scrap and 6,483 from old.

The Bureau estimated that full coverage would have turned up a scrap consumption of 42,000 tons and aluminum alloy output of 26,000 tons, with 35,000 tons of metallic recovery, overall. This report, incidentally, corrects and supercedes the Bureau's previous report covering the same month, which was summarized in this space in an earlier issue.

Chromium—Domestic consumption of chromite ores and concentrates in 1958

Heavy Chemicals

sank to the lowest level since 1954. In the same year, world output of chromite declined 21 percent and exports to this country were at the lowest level in nine years. These trends accounted for a decline of 10 to 20 percent in domestic prices of foreign ore. American output was tabbed at 143,000 tons, as compared with the previous year's 166,200 and 207,700 the year before.

Copper—Sales were rather light during the pre-holiday period, but prices held unchanged at prevailing listings.

Consumption of copper-base raw materials by mills and foundries reached a three-and-a-half year high in April, according to Business and Defense Services Administration. Fabricators stepped-up their consumption of refined copper to 147,000 from 139,000 tons in March, accounting for the largest percentage of the overall increase. Copper wire mills, with consumption of 84,000 tons, used only 4,000 tons more than a month earlier.

Total consumption of scrap rose from 76,000 tons in March to 84,000 in April, BDSA pointed out. All parts of the consuming trade showed increasing usage: brass mills up to 39,000 tons from 35,000 in March, ingot makers up to 27,000 tons from 24,000, and other fabricators up to 18,000 from 17,000.

Receipts of copper-base scrap rose 10 percent to 87,000 tons, BDSA said, with brass mills accounting for most of the increase, their receipts being 40,000 tons in April as against 34,000 in March.

Mercury—The easy tone persisted with spot material quoted at $238 to $241 per flask on Friday.

Platinum—Market retained the previous week's advance, holding to a range of $76 to $80 per ounce, spot.

Silver—Bullion has been long unchanged at 91⅜c. per troy ounce, spot.

Tin—Straits metal moved in a narrow range and closed at $1.03 per pound, spot.

Wallerstein V.P. Is Named

Wallerstein Company, Staten Island, N. Y., Division of Baxter Laboratories, Inc., has named Walter L. Van Nostrand vice-president for production. Mr. Van Nostrand, a veteran of thirty-five years with the firm, previously held the post of plant manager at the Staten Island facility.

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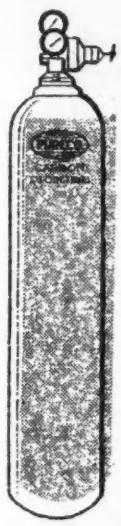

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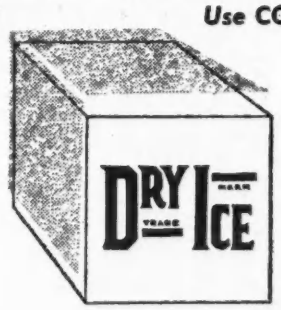

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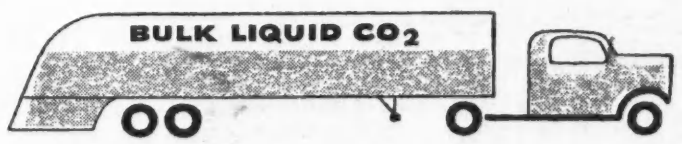

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Union Carbide Nuclear Co. Fills a Research Position

Dr. J. Calvin Brantley has been appointed assistant director of research for Union Carbide Nuclear Company, New York, a division of Union Carbide Corporation.

Dr. Brantley will be responsible for research activities related to ores and minerals at Union Carbide's Sterling Forest Laboratories located near Tuxedo, N. Y. He has been assistant manager of research for the Tonawanda Laboratories of Linde Company, another Union Carbide division, since 1956. He joined Linde in 1949 as a research chemist.

ADM Revises Setup

—*Continued from page 5*

cal products group, and Richard G. Brierly, an executive vice-president since November, who has been placed in charge of the specialty products group.

The directors also named Burton W. Schroeder, former vice-president and manager of the chemical products division to be administrative vice-president of ADM.

A new executive committee composed of Thomas L. Daniels, chairman of the board; John Daniels, Messrs. Olson, Andrews, Brierley and Schroeder has also been set up. All the new members are directors of the company.

General Counsel Named

Rodger L. Nordbye, now associated with the Minneapolis law firm of Faegre & Benson, has been elected to the newly-created fulltime position of general counsel of ADM. Faegre & Benson will continue as ADM's retained legal counsel.

Retirement of Albert C. Hoehne from his positions as a vice-president and director, effective August 1, has also been announced.

John Daniels, who discussed the company's redirection toward the marketing concept of organization a fortnight ago in New York before the New York Society of Security Analysts, said it represents a new emphasis on marketing and an organization geared to anticipate and better serve customers' needs.

"We realize that to grow most effectively in the future our organizational emphasis must be on marketing," he said. "We must be marketing oriented . . . easy to buy from."

As an example of how the new form of organization will improve service to customers, Mr. Daniels cited the feed industry, ADM's largest customer. The new program, he said will, in effect, create a "super market" for the feed industry as well as for the food industry, the chemical industry, and all the other industries to which the company supplies basic materials.

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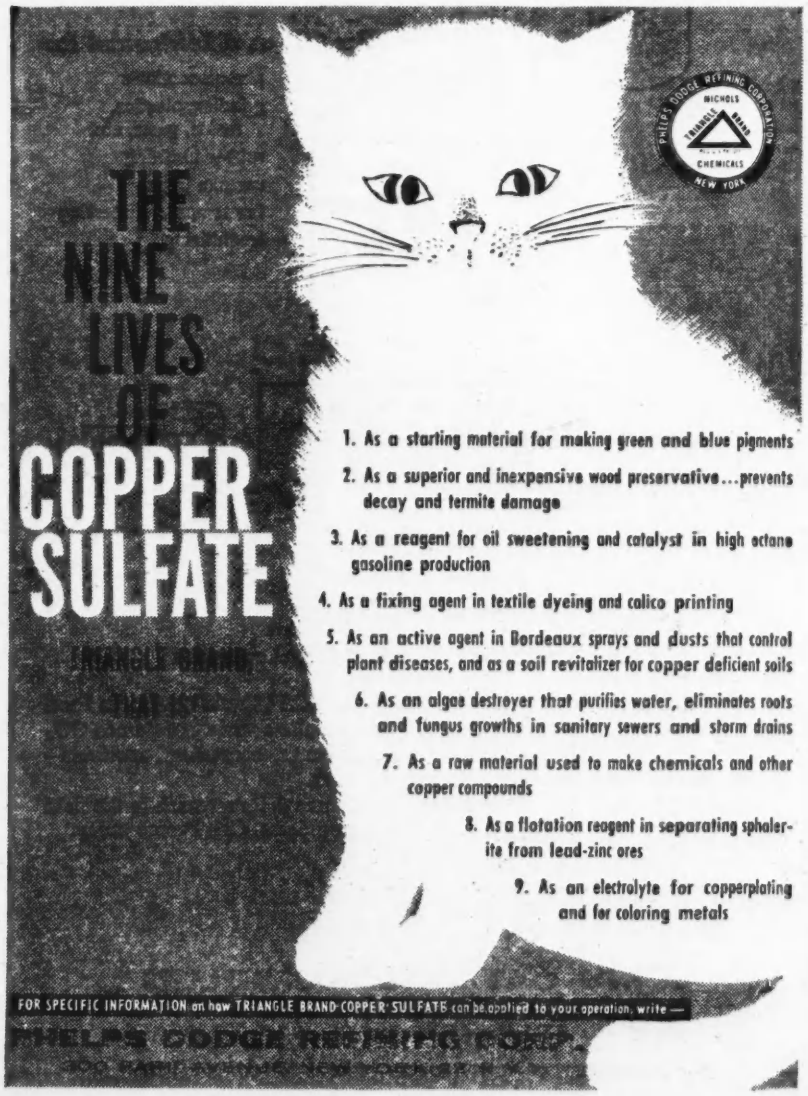
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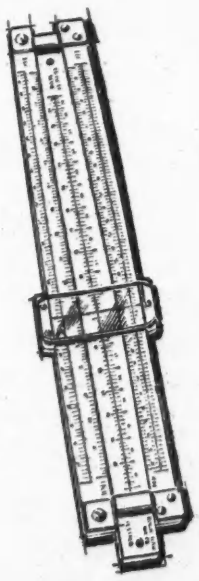

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Obituaries

Dr. David Davidson, professor of chemistry at Brooklyn College, died July 2 in New York. He was fifty-nine years old. Dr. Davidson has been a member of the Brooklyn faculty since 1932 and became a full professor in 1954.

Felix G. Matoni, founder and owner of Penn Jersey Paint & Varnish Company, Newark, N. J., died June 27 in Montclair, N. J. He was fifty-seven years old. Mr. Matoni founded Penn Jersey seventeen years ago.

George C. Moore, marketing director of distributive products for the chemical division of Merck & Co., Rahway, N. J., died June 28 in Westfield, N. J. He was forty-two years old. Mr. Moore had been with the firm for twenty years.

Kenneth I. Thompson, manager of railroad sales for Linde Company, Division of Union Carbide Corporation, New York, died in that city on June 28. He was fifty-five years old. Mr. Thompson, with Union Carbide since 1945, had served successively as general sales manager, a vice-president and director of Canadian Railroad Service Company, and vice-president for sales of Oxweld Railroad Service Company.

Columbian Carbon

—Continued from page 3

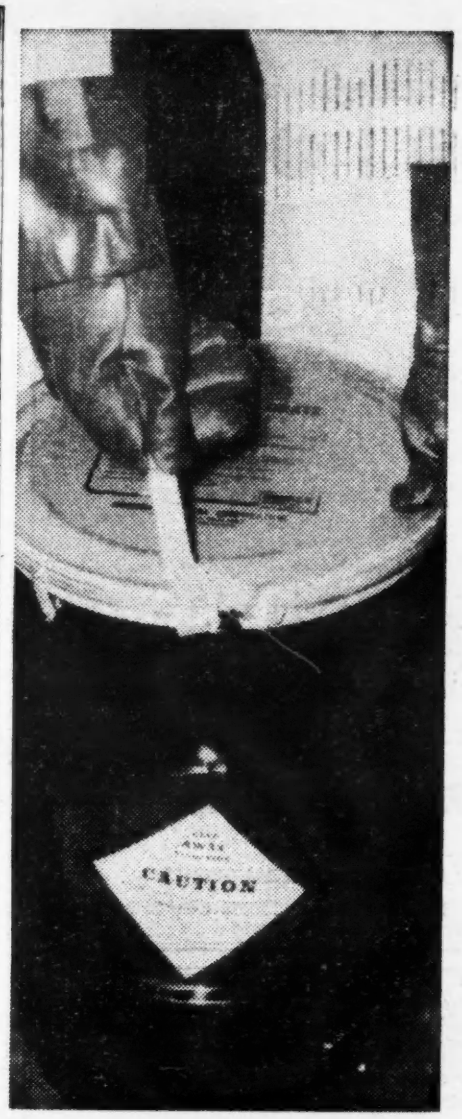
locations for further world expansion, says Lyle C. Shepard, president.

Columbian Carbon Europa reportedly will be the largest initial carbon black facility, embodying modern American designs, to be built in Europe.

Almost all employees in the new plant will be Italian nationals. Chairman of the board of directors for the new company is E. B. Brooks, vice-president in charge of the parent company's carbon black and pigment division.

Other members of the board, including strong representation from Italy, will be announced later, along with the appointment of a general manager.

Three grades of carbon will be produced in the new plant—two are tread blacks and one is carcass black.



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Business Weather Brisk, Maybe Summery

—Continued from page 3

able in the United States is quite in order. But, there are widely divergent views concerning the wisdom of buying fabricated materials and equipment from foreign sources. There is no doubt that, as a result of much lower labor rates, many items can be purchased from abroad at substantially less than domestic prices. Some are enthusiastic about buying items, not only because of the dollar savings, but also because they believe these purchases will tend to retard inflation.

Others are adamant in their belief that we should avoid foreign buying because of its possible adverse effect on our domestic production and economy. Statistically, the largest number, 39 percent, say they are not making any foreign purchases; 30 percent state they are buying more than they did five years ago, 29 percent report no change, and only two percent are buying less.

Commodity Prices

There is a little more activity in the price situation this month. In addition to the usual fluctuations (a number up and a few down) on regularly reported commodities and services, several of our members told of increased costs of warehouse space. This would appear to be the result of buyers adding to steel inventories and the resulting scramble for places to store it. Generally, price increases are minor and there is no wave of inflation in any segment. For June, 32 percent report prices up, 65 percent say there is no change, and only 3 percent indicate prices are down.

Inventories.

June reports again show very slight increases in purchased material inventories. Interestingly, several members reported difficulty in maintaining inventories of some raw materials sufficient to keep pace with expanding production schedules. On the other hand, some members still talk of "living off inventories on hand." A significant 45 percent say their June inventories are higher than May, while 16 percent say they are lower. The build-up of steel stocks continues to be the only major area where buyers are adding to inventory. The majority still are trying to keep inventories at the minimum necessary to meet current production needs.

Employment

Employment continues to hold at high levels. Automobile production, road construction, new housing starts and agricultural demands have all added to the bettering of the employment situation. There is some hiring of summer help by industry; but, in general, college students and high school graduates are finding it hard to get summer jobs.

This month, 43 percent report their employment up, 50 percent indicate no change, and 7 percent say their rolls are down for various reasons. The over-all tone of the general comments is one of continued good employment for the next few months.

Buying Policy

Even with the present optimistic business outlook, few are showing any desire to make extended commitments. Some comments reflect that suppliers are keeping spots in their production schedules open for their good customers.

	Hand to Mouth	30 Days	60 Days	90 Days	6 Mos. to 1 Yr.
Percent Reporting					
June					
Production Materials	7	27	32	27	7
MRO Supplies	20	43	25	10	2
Capital Expenditures	13	6	10	21	50
May					
Production Materials	3	26	35	25	11
MRO Supplies	25	49	19	5	2
Capital Expenditures	11	7	10	23	49

Specific Commodity Changes

This month there are quite a few miscellaneous items reported up in price that are not shown here because only one or two committee members mentioned them. Also, the reports were widely dispersed geographically.

On the up side are: Lead, scrap iron and steel, valves, warehouse costs, paper, cotton, drill bits, some electrical equipment, formaldehyde, oxygen, acetylene, butyl alcohol, electric light bulbs and rope.

On the down side are: Fuel oil, copper and gypsum wall board.

In short supply are: Steel in many forms, (sheets, structurals, galvanized, stainless, plates, etc.) and steel castings and tubing for oil fields.

Vickers Elects Vickers

James W. Vickers, formerly vice-president for marketing of Vickers Petroleum Company, Wichita, Kan., has been elected to the post of executive vice-president. At the same time, J. A. Vickers, president of Vickers, announced the election of James A. Doctor to the marketing vice-presidency formerly held by Mr. Vickers.

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Gen'l Dynamics Would Get Material Service by Merger

The boards of directors of General Dynamics Corporation and Material Service Corporation have okayed a merger of their companies. According to General Dynamics, the proposal provides that General Dynamics' acquisition of Material Service will be financed through an exchange of stock. Share owners of both corporations will be asked to approve the merger at special meetings. Details of the proposal will be announced later.

Material Service, producer of building materials, concrete products and coal, will become a major division of General Dynamics. Henry Crown, chairman of the Board of Material Service, will continue as chairman of the new division.

Dow Plans Research Unit For Agricultural Chemicals

Dow Chemical Company has plans to build a new agricultural chemical research center at company headquarters in Midland, Mich. Construction will begin immediately with completion scheduled for late next summer.

The new structure will consolidate agricultural chemicals research functions now dispersed among various laboratories at the Midland plant.

The center will house plant and animal science operations, some chemical synthesis, formulation and analytical work and serve as headquarters for Dow's countrywide program of field research. The new center will complement research facilities located at Seal Beach, Cal., and Freeport, Tex.

Monsanto, Australian Firm Set Styrene Monomer Unit

A new company to produce styrene monomer in Australia has been formed by Monsanto Chemical Company, St. Louis, Mo. and Petroleum & Chemicals Corporation (Australia) Ltd., Sydney.

The new company, Australian Petrochemicals, Ltd., will start construction immediately of a multimillion dollar plant at Silverwater near Sydney. Manufacturing operations are scheduled to begin in 1961.

Halocarbon Lab Completed

A new research and development laboratory has been completed by Halocarbon Products Corporation, Hackensack, N. J. The company, a major producer of fluorocarbon oils, waxes and greases, has designed the unit for use in the development of new products and in the expansion of its program of applications research.

Colombian Chemicals

—*Continued from page 5*

and nitrogenous fertilizer plant, and possibly increased output of chemical byproducts from two petrochemical refineries.

W. R. Grace & Co., New York, which has recently taken increased interest in the industry, is studying the feasibility of producing calcium carbide from Colombian materials, to be utilized by domestic firms in making acetylene, it is reported.

If the project is carried out, the company expects also to produce small amounts of ferrosilicon and ferromanganese alloys.

Grace also is said to be studying the possibility of producing creosote from coaltar. Production of road-paving materials from the coaltar byproducts of Paz del Rio also is contemplated.

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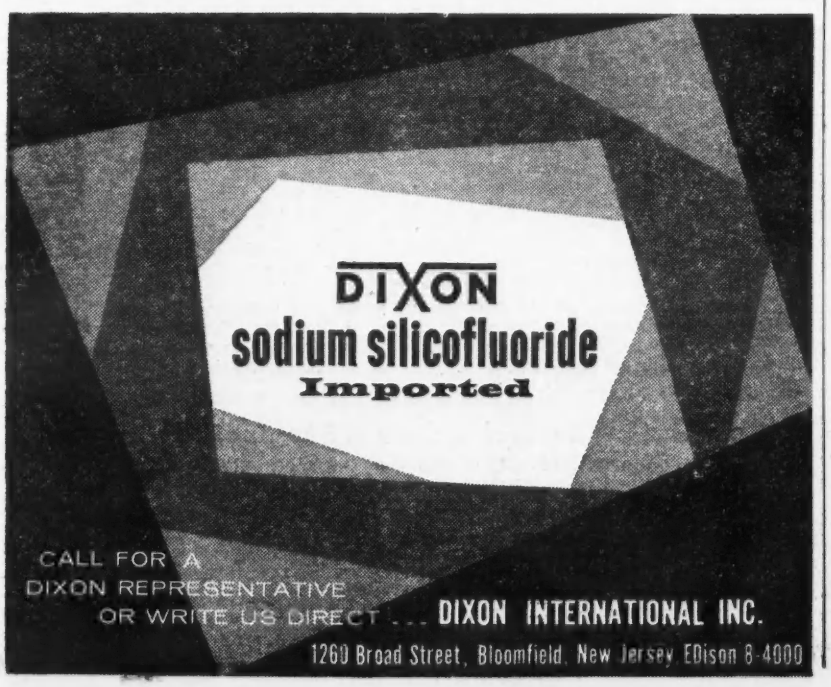

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Agricultural Chemicals

Fishmeal moved up $2 per ton, while fishscrap was raised $1 per ton. Dried blood and tankage have leveled off after a long downtrend begun early in May. Other natural organics were unchanged from previous report. Sources said demand in these markets remained relatively slow. The overall nitrogen supply was showing steady improvement. Sources have expressed surprise that demand has been well sustained this late in the year. Ideal weather conditions during the past eight weeks over most parts of the country was felt to be a partial explanation. This is especially so, sources point out, when the very poor planting season of last year is considered.

Manufacturers of DDT expect the government to come into the market for an additional 40 to 45 million pounds of material sometime in August. Sustained government buying this year has contributed a firm tone to this market. Pesticides use in cotton treatment was beginning to open up, it was said, although there remained considerable indecision among growers as to what type of material they would use this year. A sizable reduction in methyl parathion since last season has served to sharpen an already competitive market.

Agricultural chemicals makers said a steel strike could have little impact on this segment of the chemical industry, especially if it was a short one. One or two sources said they might run short of metal drums if the strike ran for over two months. On the other hand, it was pointed out that most large volume agricultural chemicals move in bulk lots and the peak demand period is past. Perhaps the most important item which would be effected by a prolonged strike is ammonium sulfate. March production of cokeoven sulfate amounted to approximately 73,000 short tons.

Stocks of potash were fully adequate for trade needs. A brief shortage on some granulations was noted during the peak season, but this situation has been alleviated. Demand has slowed considerably.

An Egyptian fertilizer company will get a $5 million loan to finance purchases of equipment in the United States for expansion of its fertilizer operations, according to the Department of Commerce. The plant, built at Suez in 1948-50, was provided with equipment from the US under earlier Export-Import bank credits of about $7.2 million which have been paid in full. The new expansion program will enlarge the producer's ammonia capacity by 50 percent, it was said.

Price Trends

Advanced
Fishmeal, dom., $2 per ton.
Scrap, dom., $1 per ton.

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	July 3, 1958
111.00	111.21	111.86	109.80

For Current Prices see page 9

Animal and Plant Foods

Ammonia—The overall supply situation was improving steadily. Sources have expressed surprise that shortages of nitrogen materials have hung on as long as they have this year. A partial explanation was that weather conditions have been ideal. Price of fertilizer grade anhydrous ammonia will show a seasonal decline of $4 to $84 per ton August 1, as against the $8 drop to $80 per ton last year.

During October-December, 1959, price will be $86 per ton, and in the January-June period, price will be $88 per ton.

Effective August 1, through September, the price of refrigeration grade anhydrous ammonia will drop $4 per ton to $86.50. For the October-December period, the price will be $88.50, and on January 1, 1960, price will move up to $90.50 per ton.

Animal Proteins—Dried blood at New York and Chicago was quoted at $5.75 per unit ton, unchanged from previous report. Tankage was also unchanged at $5.50 per unit ton, New York, and $6 at Chicago. Bonemeal remains nominal at $75 per ton, East Coast works; castor pomace, $35 per ton with price continuing nominal as stocks have been depleted for many weeks. Hoofmeal was unchanged at $6.75 per unit ton, Chicago. Price on nitrogenous tankage was nominal at $4.50 per unit ton. Stocks continue scaurce. Sources said the market was quiet.

Fishscrap moved up $1 per ton to $122, while fishmeal was quoted at $127, a rise of $2 per ton over previous report. Supply was good; demand, fair; market, quiet.

Nitrogen Solutions—Stocks were somewhat easier as the season, to all intents and purposes, is over. Trade sources have continued to be surprised by the sustained call for nitrogen materials experienced this season. This week should see the end of side dressing operations in the Midwest, sources said. Current price of $120 per ton will carry through September. Fourth quarter price will be $124 per ton.

Superphosphate—Production of superphosphate and other phosphatic fertilizers in April amounted to 259,513 short tons as against 241,146 tons in the comparable month last year.

Shipments during the month amounted to 264,512 short tons, a 14 percent increase over the amount shipped in April last year.

Stocks held at producing plants at the close of April were 184,666 short tons which was 39 percent less than the total held at the end of March.

Pesticides

BHC—Outlet to cotton growers was beginning to open up sources said. However, there was said to be considerable indecision on the part of growers as to the type of insecticide they will use. Sizable reductions in parathions since the first of the year have sharpened an already competitive condition. Stocks of BHC were considered fully adequate for trade requirements.

DDT—Trade sources expect the government to come in for an additional 40-45 million pounds of DDT sometime in August. Government buying in this market has continued to be a firming factor. This material was expected to remain in the picture in treating cotton acreage, but drastic reduction in price on methyl parathion since the first of the year has led to increased competitive pressure in this market area. Price was unchanged from previous report.

Methyl Parathion—Demand was beginning to take shape in the cotton growing South, according to trade sources reporting last week. However, there was some hesitation on the part of growers as to picking the kind of insecticide they would use. A sizable price reduction in this market since last season makes it likely that methyl parathion will come in for an increasingly heavy share of the cotton crop business. Stocks were considered fully adequate to care for trade requirements in the coming weeks.

Production: Superphosphate & Phosphatic Fertilizers

Data on output of superphosphates and other phosphatic fertilizers is compiled by the Bureau of Census. Figures are reported in short tons on a 100% a.p.a. basis.

	April 1959	April 1958	First Four Months 1959	First Four Months 1958
Normal and Enriched	136,761	139,263	557,778	499,988
Concentrated	71,413	72,205	313,998	296,282
Ammonium Phosphates	18,655	16,140	69,858	55,909
Other Phosphatic Fertilizers (includes wet-base goods)	12,684	13,934	46,783	47,896
Total	259,513	241,844	987,417	900,075

Petroleum Derivatives

Agreement of steelmen to put off a walk-out for two weeks and to begin negotiations once again, has given the kiss of death to much of the dark strike talk running rampant in the market place. Previously, a prolonged steel strike had become a foregone conclusion. At present, many trade observers see the two week delay as a tacit promise that compromise will be a key word through the negotiations. To petroleum derivatives men, the situation has a double cutting edge. To many, a strike meant a sharp reduction in top-heavy stockpiles. To these market men, the longer the better, seemed to be an appropriate motto. To others, however, with the long-range view in mind, the break in steel production was seen as a blow to the general economy. These are the men who look forward to an amicable end to the steel troubles.

Production of crude petroleum in the United States averaged 7,256,000 barrels per day in April, an increase of 63,000 barels per day over the level of production in March, according to the current report from the Bureau of Mines. During the month, the Bureau says, most major producing states recorded moderate output changes. Greatest was an increase of 53,000 barrels per day in Louisiana and a decrease of 48,000 barrels per day in Texas.

During the month, indicated demand for all crude decreased 349,000 barrels per day including 203,000 barrels per day for domestic and 146,000 barrels per day for foreign. Total crude stocks, domestic and foreign, amounted to 257,564,000 barels on April 30, compared with 254,940,000 barrels, at the end of March.

Well completion, including service wells and dry holes, totaled 4,105 compared with 3,767 in the previous month and 3,027 in April, 1958.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	July 3, 1958
104.42	104.42	104.42	109.79

For Current Prices see page 9

Solvents and Diluents

Penzene—Extension of the steel negotiations, through intercession of the President, has brought a new tone to the general attitude in this market. Some of the stock buying going on has been curtailed, it is reported, and though the wait-and-see attitude still prevails, it is strongly tinged with optimism (or pessimism, depending on the viewpoint) that negotiations will resolve the problem without labor having to resort to a strike. On the whole, market conditions remain pretty much unchanged, with sales showing no variation in position. Price is expected to stand pat. In the instance that a strike does take place, of course, the entire face of the market is liable to change color; however, the way things look now, matters will remain pretty much a constant will into the next quarter.

Toluene — Material continues to move in some volume, producers here reported last week, but the pattern is unchanged. Prices also continue at previous levels and no one on the scene sees any reason for change in the forseeable future. Government buying is the strongest booster for toluene. However, this tap is at best a nominal one, and stocks are not all that might be desired.

Cleaners Naphtha—Producers say summer sales continue pretty good, though prices are unmoving and no one sees any change pending. Seasonal sales, one observer said, are better than had been expected. However, the growth in use of synthetic fiber is causing some damage and it is suggested that market strength has come more through population growth rather than any developments in usage.

Xylene—All quiet here, observers say. Little to report, with conditions remaining pretty much what they've been the past few months. Nothing in the present static economy picture promises any changes in the immediate future.

LPG's

Propane — Production of this material in April, according to a report by the Bureau of Mines, came to 295,213,000 gallons at plants and 116,213,000 gallons at refineries.

Stocks of propane at plants, terminals and underground, the report says, amounted to 347,205,000 gallons on April 30 as compared with the 272,681,000 gallons on March 31.

Demand through deliveries from plants and terminals for use in gasoline came to 3,864,000 gallons in April, while some 335,517,000 gallons went to other uses.

Butanes — Production of this LPG at plants amounted to 169,410,000 gallons during April, according to the current report from the Bureau of Mines. Production at refineries amounted to some 75,432,000 gallons.

Stocks of propane at plants, terminals and underground, the report says, amounted to 174,510,000 gallons on April 30. Stocks had stood at 117,169,000 gallons on March 30.

Demand through deliveries from plants and terminals for use in gasoline amounted to 53,902,000 gallons in April while some 123,939,000 gallons went into other uses.

Waxes, Mineral

Production of this material during April amounted to 506,000 barrels, with a daily average output of some 17,000 barrels, according to the current monthly report of the Bureau of Mines. Production during March had been 466,000 barrels, while that in April, 1958, had been 436,000 barrels. Ouptut for the first four months of the year, the report notes, amounted to 1,879,000 barrels, as compared with the 1,710,000 barrels produced during the same period of 1958.

Exports of petroleum waxes were tallied in the report at 85,000 barrels. This compares with 96,000 barrels shipped out of the country in March, and the 65,000 barrels exported during April, 1958. Total exports for the first four months of this year amounted to 335,000 barrels; exports during the first four months of last year amounted to 259,000 barrels.

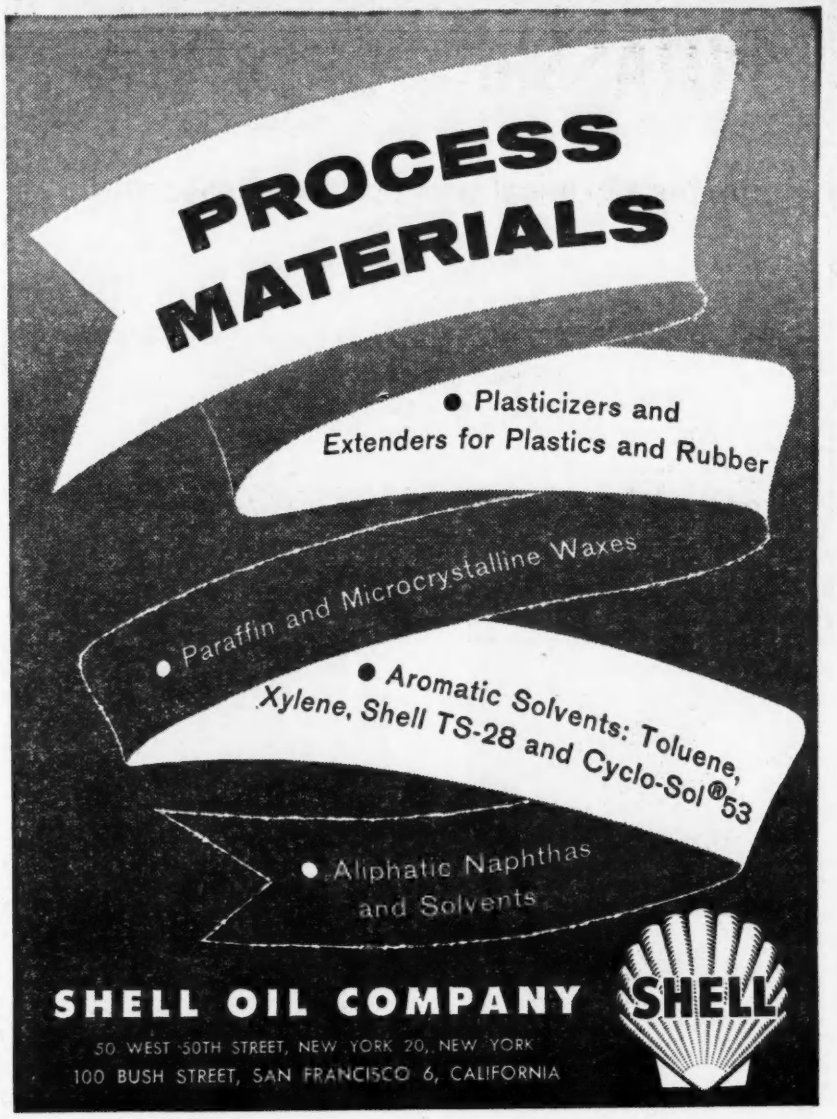
Miscellaneous

Crude Oil—Current reports of the industry for the week ended June 19 indicate an increase in crude oil production and a decrease in crude runs. According to the American Petroleum Institute, the daily average output of crude (including lease condensate) was 7,017,000 barrels, an increase of 7,000 barrels from the preceding week. Daily average crude runs to stills of 8,000 barrels were 20,000 barrels below the preceding week, and 478,000 barrels above the week ended June 20, 1958. Runs of foreign crude amounted to 1,003,000 barrels daily, compared with 1,020,000 barrels in the preceding week. For the four-week period ending June 19, crude oil production averaged 7,066,000 barrels daily, with runs of foreign crude averaging 988,000 barrels daily.

Total crude runs to stills in April averaged 7,866,000 barrels per day, compared with 8,207,000 in March. Runs of both domestic and foreign crude oil decreased during the month, 207,000 per day and 134,000 barrels per day, respectively. Stocks of refined products amounted to 485,670,000 barrels at the end of April, an increase of 1,077,000 barrels during the month.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended June 20 totaled 265,729,000 barrels according to data reported by the Bureau of Mines. Compared with the total of 263,164,000 barrels the preceding week, this represents an increase of 2,565,000 barrels comprising an increase of 1,060,000 barrels in stocks of domestic crude and an increase of 1,505,000 barrels in stocks of foreign crude.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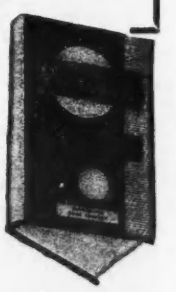

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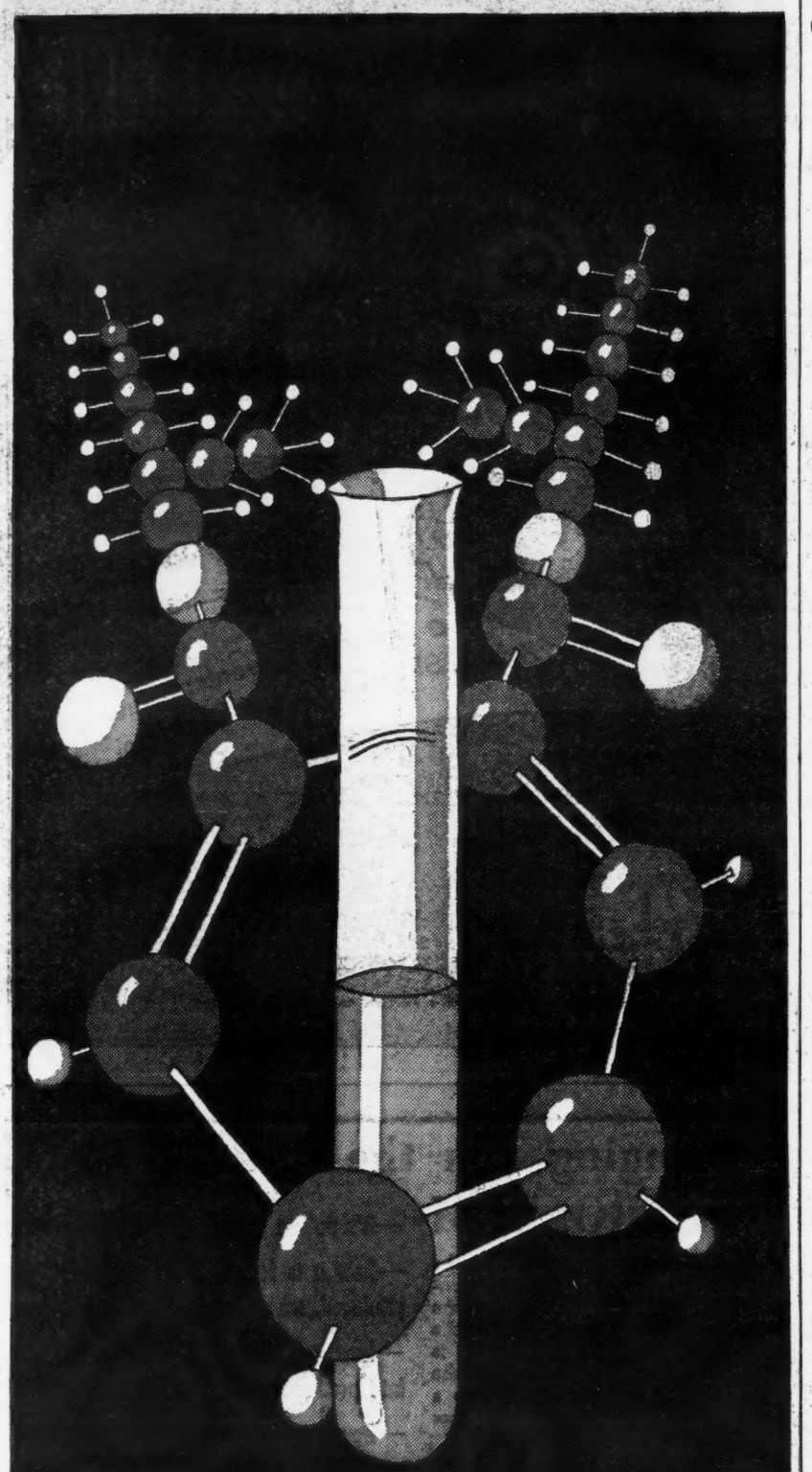

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Coal Chemicals

A steel strike was averted last week and talks in the industry extended to July 14. The consensus continues to be that coal chemical users would not suffer overly from supply problems during a short strike. On some items, there was said to be a supply of up to two and a half months. Consumers were expected to continue buying benzene at a steady pace during the next two weeks in order to maintain inventories they have built up during the second quarter. Toluene and xylene were in fully adequate supply. Naphthalene remains closely held. The resin chemicals, phthalic anhydride, maleic anhydride, and fumaric acid remain in short supply. Sources were beginning to talk of plant shutdowns for vacations, which is bound to curb business. In addition, a steel strike was still possible and would further serve to slow industrial activity. Prospects for the final quarter remain bright, partially due to the fine showing in the automotive industry, sources say.

New car production in the first half of the year totaled 3,284,037 units and led to speculation in the industry that six million cars might be turned out this year. June output was 65 percent better than the year-ago month, and the best for any June since 1955. Inventory building on a large scale and introduction of compact cars this fall by the Big Three has caused industry sources to raise their sights. If a steel supply is not cut off, it was felt that fourth quarter production could go over 1.6 million units.

The Tariff Commission reported output of toners and lakes in 1958 was the smallest since 1946. According to the report, 1958 production of synthetic organic pigments amounted to 35.4 million pounds as against 37.8 million in the previous year, a decline of 6.3 percent. Sales last year totaled 27.7 million pounds valued at $53.3 million as against 29.6 million valued at $56.9 million in 1957. The figures represent a decline in sales of 6.4 percent in quantity, and 6.4 percent in value.

The American Iron and Steel Institute estimated that steel production in the week ended July 5 would amount to 84.9 percent of theoretical capacity equivalent to 2,405,000 net tons of steel. Output of steel was 2,486,000 net tons in the previous week, 2,653,000 in the comparable week one month ago and 1,376,000 net tons in the corresponding week one year ago. In the final week of June, steel production dropped below 90 percent for the first time in four months.

Price Trends

Advanced
Styrene monomer, tech., .03c. per lb.

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	July 3, 1958
118.45	118.45	118.54	118.61

For Current Prices see page 9

Basic Products

Aniline—Production of aniline in April amounted to 12,465,387 pounds as against 11,639,525 pounds in the previous month, and 8,319,173 pounds in April of last year, according to report of the Tariff Commission. Output for the first four months of this year was 45,902,968 pounds as against 33,779,018 pounds in the four month period last year.

Benzene — A much-talked about steel strike was averted last week and labor-management talks extended to July 14. Sources said steady buying of benzene to maintain inventories would continue for the next two weeks, but that consumers had already built up their stocks to a point where they would be able to come through a short strike in good shape.

Creosote—The market was unchanged. The last price action in this market was a 2c. per gallon advance effected by maior producers April 1. Listing on straight No. 1 oil, in tankcar quantity, is 24c. per gallon. Demand has been slow, although recent weeks have seen an improvement in consumption, sources said.

Cresols — Movement of ortho cresol continued on the slow side, although sources said they have noted a distinct improvement over the first three months of the year. The improvement has been in line with a general uptrend in resin business of late. Meta-para fractions have also come under increased demand in the second quarter. However, nothing like the avid demand that has taken place in some other coal chemicals markets, has been forthcoming in cresols. Stocks were fully adequate for trade requirements.

Import of m-cresol last year amounted to 105,030 pounds, according to Tariff Commission report.

p-Cresol—A producer of 98% p-cresol said some material was being sold on the open market, but a substantial portion of production is taken up by captive needs and contract requirements. Another major producer has been out of the market for two weeks as a result of a plant strike. Price was unchanged at 49c. per pound, tanks, delivered East of the Rockies. A tight supply position could be building in this market, but as yet the situation was in balance.

Cresylic Acid—Domestic makers reported some improvement in movement during the second quarter. Importers say the market is no better, no worse. Demand is moderate and no shortages are anticipated.

Naphthalene—The market continues to be undersupplied. No substantial offerings of import material are being made. A belief that import stocks were being withheld from this market in anticipation of a higher price is no longer valid, sources say. One source reports having received numerous inquiries from various parts of the world for quotations on naphthalene for export; something that would not happen if material was available on the continent.

The Tariff Commission reported production of naphthalene in the first quarter amounted to 143 million pounds as against 92 million in the first three months of last year.

Phenol — Stocks in this market have been adequate to care for the heavy demands made on producers during the second quarter. Price has been steady since a 1c. per pound across the board reduction in synthetic material at the beginning of May. The price on natural phenol dropped at that time ½c. to 1c. per pound, according to the various grades.

Tariff Commission report indicates a

Aromatic Chemicals Output: April

Figures for benzene, xylene and toluene include cokeoven operators, tar distillers and petroleum operators. Creosote oil statistics include distillate, as such, and creosote content of solution, on 100%-creosote basis.

		April 1959	April 1958	First Four Months 1959	First Four Months 1958
Benzene	gals.	32,175,989	19,350,122	116,812,441	89,179,473
Creosote oil	gals.	7,819,428	8,508,649	32,575,830	32,892,875
Cresols, m-p and o-m-p fractions	lbs.	4,145,175	2,744,914	11,134,820	10,829,733
Cresylic acid, refined, all sources	lbs.	5,161,705	4,560,218	19,101,214	17,091,800
Dodecylbenzene	lbs.	47,444,295	41,292,248	184,577,547	149,947,907
Monochlorobenzene	lbs.	47,696,487	32,700,082	170,354,667	133,410,451
Naphthalene, crude	lbs.	42,434,230	19,439,976	142,956,912	92,012,336
Phenol, tech and USP	lbs.	55,061,047	43,854,334	212,939,488*	178,653,391
Phthalic anhydride	lbs.	33,315,623	24,090,152	120,550,678	99,504,282
Styrene monomer	lbs.	125,163,799	87,663,828	478,472,676	361,144,348
Toluene	gals.	22,516,967	16,127,376	81,030,571	68,488,409
Xylene	gals.	22,180,695	12,898,414	65,504,630	64,764,640

* March figure revised.

Coal Chemicals

production of technical and USP phenol in the first four months of the year of approximately 213 million pounds, an increase of 34.3 million pounds over the four month period of last year.

Pyridine—Tar distillers and cokeoven operators production of refined 2 degree pyridine amounted to 285,631 pounds in April against 136,761 pounds in the previous month, and 136,616 pounds in the comparable month one year ago. Output from these sources during the first four months of this year amounted to

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ended July 5, was as follows:

Ammonium liquor	lbs.	852,758
Ammonium sulfate	lbs.	36,234,742
Benzene	gals.	3,336,229
Coaltar	gals.	19,822,877
Crude chemical oil	gals.	628,348
Solvent naphtha crude heavy solvent	gals.	119,685
Toluene	gals.	807,876
Xylene	gals.	239,370

723,451 pounds as against 558,800 in the first quarter of last year.

Price was unchanged from previous report. Both synthetic and natural pyridine declined 5c. per pound in bulk late last month. Price was quoted at 65c. per pound in tanks; carload, 69½c. per pound; less carload, 70c. per pound.

Toluene—A report in this space two weeks ago, concerning the amount of coaltar source toluene produced, was in error. Figures of the United States Tariff Commission indicate that in the first four months of this year, tar distillers and cokeoven operators produced 13,154,293 gallons of toluene, or 16.2 percent of the 81,030,571 gallon total.

It was pointed out that in considering the amount of toluene marketed for use in chemicals and solvents, coaltar material accounts for a much higher percentage.

Dyes

Dyes—Imports of coaltar dyes in 1958 were 20.4 percent greater than in the previous year, Tariff Commission said. In '58 imports of dyes, exclusive of synthetic organic pigments, were valued at $6.5 million and totaled 41.1 percent of imports under paragraph 28 designated as finished coaltar products. In 1957 dye imports were valued at $5.4 million and amounted to 40.6 percent of imports of finished coaltar products.

Intermediates

2,6-Di-tert-butyl-p-cresol — Reductions amounting to about 25% on agricultural and technical material were recorded by producers in this market two weeks ago. Stocks were currently adequate for trade requirements.

Phthalic Anhydride—A shortage continues to hang on in this market. An easing of the supply position on naphthalene is necessary before any improvement in phthalic can be felt, it was said. However, consumers have built heavy inventories of phthalic and a slowdown in the third quarter was a certainty. Of more interest, from a speculative standpoint, is the extent of the reversal. Sources point out that chemical producers' vacation shutdowns, combined with a possible steel strike, could level industrial activity for the third quarter.

Polyethylene Netting Process Rights Acquired by duPont

E. I. duPont de Nemours & Co., Wilmington, Del., has acquired US rights to a British process for extruding polyethylene and other polymers in the form of netting.

Use of the product for packaging and industrial applications is being evaluated. Information as to potential uses for the new materiial will be available upon completion of studies now under way, the company said.

Grace Managers Named

Dr. Robert Q. Parks has been promoted to general manager of Grace Chemical Division of W. R. Grace and Co., New York. Frank J. Ronan succeeds Dr. Parks as general sales manager.

Sodium Borohydride

—Continued from page 3

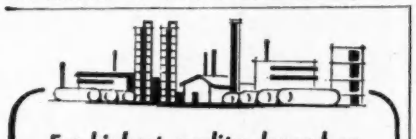
duction there has been no definite price schedule established as yet. The company anticipates, however, that for quantities exceeding 20 thousand tons per year, an approximate $15 per pound price may be possible.

The existing price of the pure sodium borohydride product is in the $33 per pound category—generally limiting uses to processes, such as pharmaceuticals, that use high-price materials.

Some observers in the industry think Washington's ending of the contract indicates that the Government is phasing out production of one form of high-energy fuel, HEF-2, which has been superseded by a cheaper and more potent fuel, HEF-3.

Sodium borohydride is an intermediate chemical in the HEF-2 production process, but is not used at all in the HEF-3 process.

The deliveries by MHI until the contract was terminated were made to a high-energy fuel plant at Niagara Falls, N. Y., owned by Olin Mathieson Chemical Corporation.



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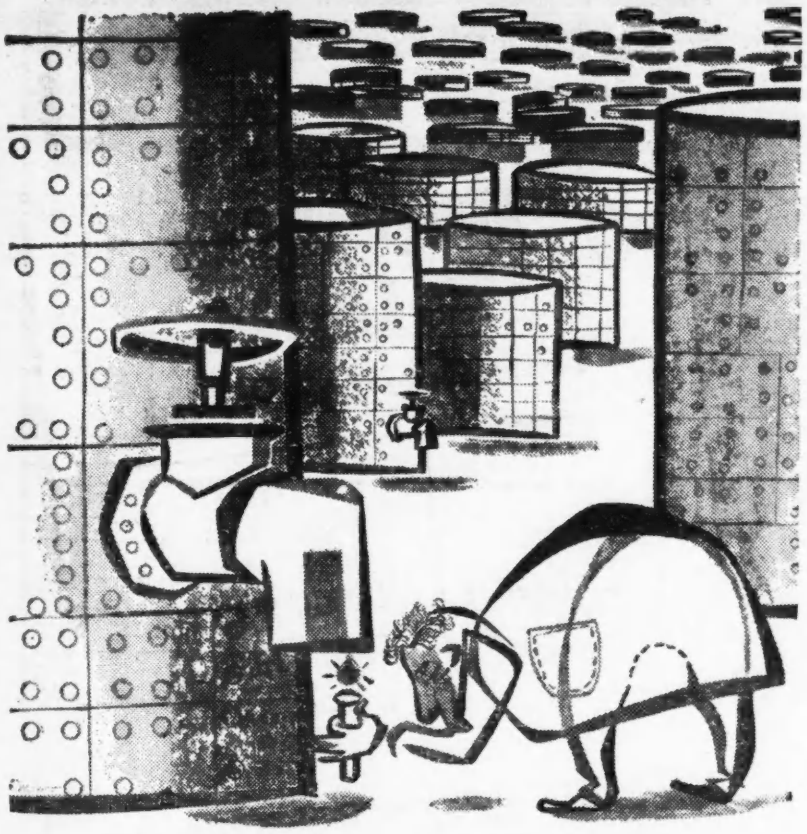

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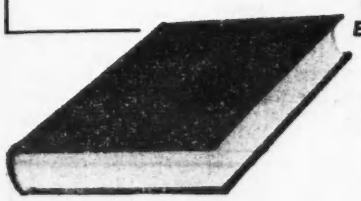

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Jobs & People

American Agricultural Chemical Company, New York—**B. E. Thorne** has been named sales manager for New England. Also named to head up two new sales divisions were **J. D. McMurray** for the midwest and **B. E. Brown** for the south central.

American Cyanamid Company, New York—**Charles H. Groezinger** has been named assistant to the manager of the process chemicals department.

Diamond Alkali Company, Cleveland, Ohio—**A. W. Waller** has been named operations manager of the chromium chemicals division at the Kearny, N. J., and Painsville, Ohio, facilities. **George Henderson** succeeds Mr. Waller in his former post as general superintendent at Kearny. **George Barbieri** has been named general superintendent at the Painsville facility.

Dow Chemical Company, Midland, Mich.—**James D. Hembree** has been named a product manager in the solvents section of the chlor-alkali sales department.

Heyden Newport Chemical Corporation, New York—**Chester F. Koda** has been named chief of the microbiological laboratory for Nuodex Products Company, a division of Heyden Newport.

Merck & Co., Rahway, N. J.—**William E. Guenther** has been named assistant to the operations and training manager in agricultural sales for the chemical division.

Monsanto Chemical Company, St. Louis, Mo.—**Herbert S. Parham** has been appointed director of marketing of the firm's organic chemicals division. At the same time, **Charles H. Sommer** has been elected executive vice-president of the firm and a member of its board of directors and its executive committee.

Ross' Nat'l Sales Division Opens Office in New York

The national sales division of F. H. Ross & Co. has opened a New York office at 155 East 44th street.

The division's primary objective is to obtain exclusive representation in the sale of heavy chemicals. It is headed up by Gosta Englund who will make New York his headquarters. Ross was founded in 1920. Since its inception it has grown steadily and today is reportedly one of the largest re-sellers of chemicals in the nation.

Atom-Blasted Shale

—Continued from page 7

ingness to participate and help finance at least part of the project, the bureau says.

The government proposal was introduced last January at a government-industry meeting in Dallas, Tex. According to the bureau, if the meeting does come off, the government will offer industry a cooperative agreement that will cover only the detonation of a nuclear device and the work necessary to evaluate the effect of the explosion on the oil-shale formation.

Antitrust Measure

—Continued from page 5

investigation of antitrust cases, but only where a civil suit is being considered. In criminal cases, the Justice department's antitrust division still will be required to get its information by grand jury investigation and through the use of subpoena power.

The Kefauver bill makes it clear that any business papers turned over to the Justice department will be protected at all times by a custodian of records. Any information obtained by investigators will have to pertain to the case at hand and not relate to any other matters of interest to the Justice department. Companies that violate the law or refuse to comply with its provisions will be subject to fines of up to $5,000 or five year prison terms, or both.

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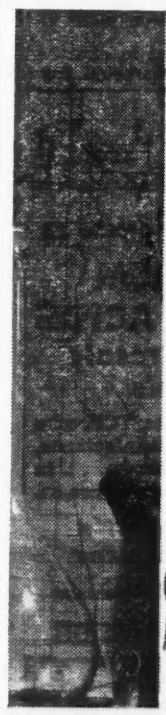

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Aliphatic Organics

The threat to strike the steel industry has been turned on and off so many times—it was postponed most recently by the intervention of the President, as several trade people predicted two months ago—that the whole affair has become rather a bore. In fact, thinking is now that a steel strike, especially one of long duration, is no more than a remote possibility. But should it come, most if not all people in the organic chemicals business will be fully prepared.

OPD's poll of leading chemical producers last week revealed that the majority of firms have an adequate supply of steel drums on hand — in most cases enough to fill normal requirements for anywhere from six to eight weeks. It was also learned that lacquer manufacturers have built up inventories of byproduct toluene and xylene sufficient to carry them through a short-term steel shutdown. But, as several sources pointed out, there is no real fear of a BTX shortage since petroleum makers appear to have sufficient stocks to take care of all potential buyers.

Besides the steel strike discussion, trade people last week were talking about the high level of chemical sales in May and June, which nearly duplicated March and April performance, and the generally favorable outlook for business during the coming months. Most of the trade feel that demand will slow to a summer crawl eventually, but for the next few weeks they expect that sales will continue up. The reasoning here appeared to be that with the Independence day holiday falling on a Saturday rather than in mid-week, many chemical consumers have postponed plant shutdowns until later in the season.

In some lines of chemical products, however, there is a possibility that the summer slowdown will not be as seriously felt as in former years. Sources note that in some trades—plastics for one—several firms are not planning to halt production for the usual two-week stretch.

Price advances for formaldehyde, n-butyl and isobutyl alcohols, and several fatty alcohols, including octanol and decanol, were put through, as scheduled, July 1. Of the changes, the formadehyde increase (¼ cent per pound across the board) was looked upon as the most significant. This was because formaldehyde, of the several major chemicals that were price-depressed by the recession, was the only one not to have been returned to a higher schedule since the first of the year.

Acetone—A well diversified end-use pattern—various solvent uses, pharmaceutical extraction, chemical processing—has seen sales of acetone approach record levels during the past few months. All-around good business was reported in June, but requirements nonetheless fell short of March and April inquiry.

Production of acetone in April, as the table below reveals, climbed to 61 million pounds from 58.2 million in March. Sources indicate that May output probably outdistanced the higher figure.

Prices are described as firm. No action in this department is anticipated.

n-Butyl Alcohol—Producers advanced prices of n-butyl and isobutyl alcohol ½ cent per pound across the board, July 1.

The increase established the tankcar price of butyl alcohol, at 15c. per pound, for isobutyl at 14c., both on a delivered basis.

But to some of the trade's dismay, butyl acetate and isobutyl acetate prices were not revised. This broke with traditional pricing policy.

Fatty Alcohols—Two producers posted higher prices for decanol, octanol, and several grades of lauryl alcohol, July 1. In all cases, schedules were advanced uniformly 2 cents per pound across the board.

New prices for octanol and decanol, which are the only fatty alcohols listed in OPD's Prices Current, are in zone 1: tankcars, 41c. per pound; drum carloads (40,000 pounds minimum) 43½c.; truckloads, 43½c.; less than truckloads, 45½c.; and less than drum quantities, 55½c. per pound.

In zone 2, which embraces Arizona, California, Idaho, Montana, Nevada, Oregon, Utah and Washington, prices are now 1½ cents per pound higher than those quoted above.

When notice of the projected July 1 price advance was made early last month, it was thought that the spiraling cost of coconut oil, from which these alcohols are derived, was the motivation for the action. But since that time, there have been other developments which have caused the long-rising price of coconut oil to drop—as it did last week to 17½c. a pound, tankcars, Pacific coast.

Among the aforementioned other developments was the announcement that GSA wants to sell 265 million pounds of its stockpiled coconut oil and has asked Congress for permission to do so. If Congress says yes and the sale commences, it's likely that the price of coconut oil will drop further, people familiar with the market believe. Of course, this may not have any effect on fatty alcohol prices, but then again it may.

Formaldehyde—The ¼ cent per pound across the board price advance was put through, as scheduled, July 1, thereby bringing the listing on unihibitied (methanol-free, as it's also called) formaldehyde to 3.75c. Prior to the reduction of May

—Continued on page 62

Price Trends

Advanced

n-Butyl alcohol, ½c. per lb.
n-Decyl alcohol, 2c. per lb.
Formaldehyde, ¼c. per lb.
Isobutyl alcohol, ½c. per lb.
n-Octyl alcohol, 2c. per lb.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	July 3, 1958
130.55	130.49	130.50	130.61

For Current Prices see page 9

Organic Chemicals Output: April

The following figures, in pounds, represent output of specified organic chemicals in March and April, 1959, as reported by the Tariff Commission.

	April	March
Acetic acid:		
Synthetic	46,796,742	55,584,450
Natural (Wood distillation)	*	1,986,000
Acetic anhydride	90,445,294	86,948,805
Acetone	61,032,628	58,267,832
Acrylonitrile	18,259,762	14,321,671
1,3-Butadiene (grade for rubber)	145,412,377	146,353,764
Carbon disulfide	146,024,214	49,764,325
Carbon tetrachloride	24,611,548	32,686,632
Ethanolamines (Mono-, di-, and tri-)	10,829,118	9,614,501
Ethyl acetate (85 percent)	5,594,365	10,339,159
Ethylene Glycol	91,167,029	94,035,919
Formaldehyde (37 percent by weight)	144,116,514	148,460,536
Methanol:		
Synthetic	125,157,840	131,297,291
Natural (Wood distillation)	*	1,274,880
Pentaerythritol	5,476,312	4,952,475
Perchloroethylene	17,647,750	18,224,485
Propylene glycol	*	*
Trichloroethylene	30,369,280	30,266,859

* Data not reported.

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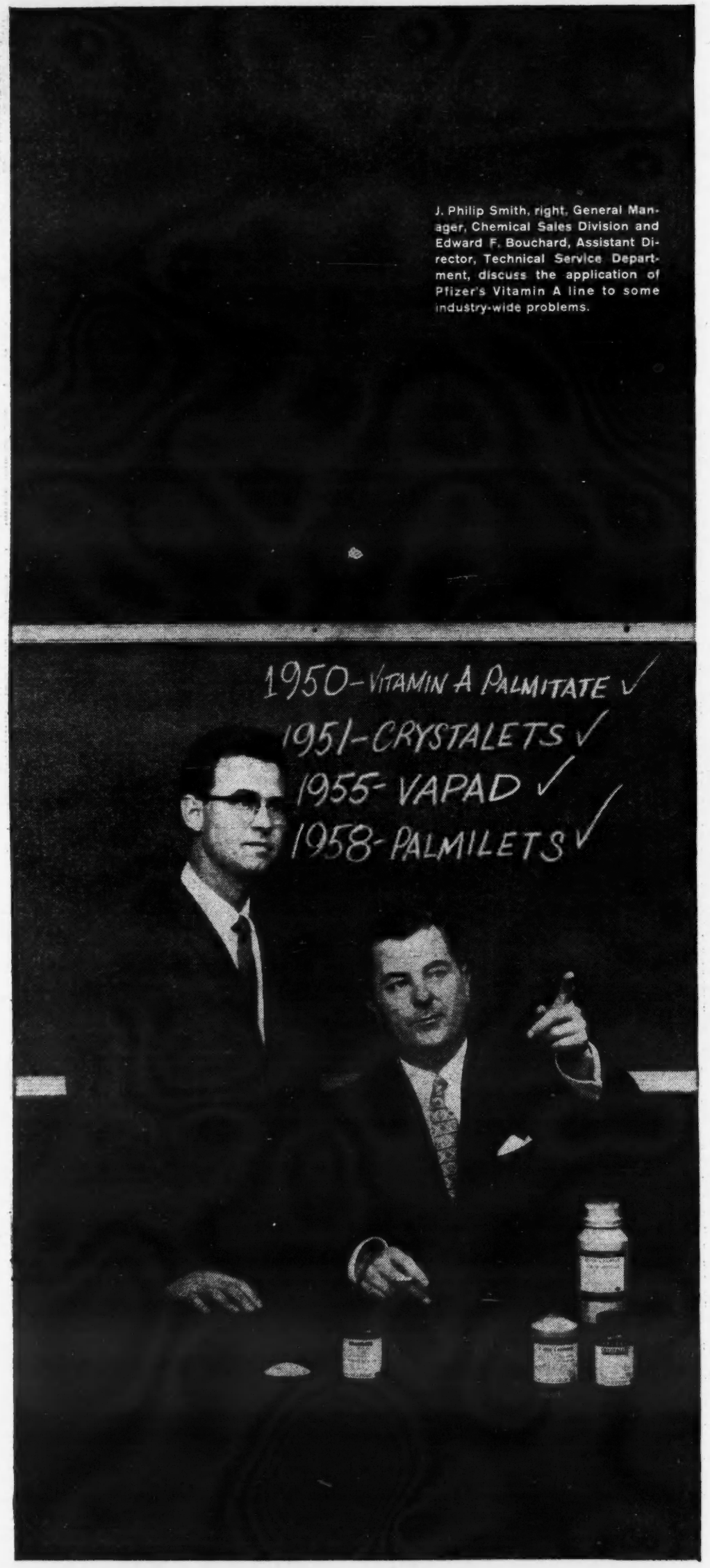

J. Philip Smith, right, General Manager, Chemical Sales Division and Edward F. Bouchard, Assistant Director, Technical Service Department, discuss the application of Pfizer's Vitamin A line to some industry-wide problems.

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Drugs, Fine Chemicals

It used to be that a price reduction followed a substantial increase in production. But the current trend, it seems, is just the reverse. These days, if the market for a particular chemical is stalemated by low output, low profits, and high prices, there's only one thing to do, at least as some trade people see it: Cut prices and hope that production will eventually catch up. That's what lysine makers did a month ago, and a major producer of l-glutamine did last week.

By announcing that glutamine is now available at $75 per kilo in 500-kilo lots, as compared with the one-to-ten kilo listing of $150, the producer hopes to stimulate widespread interest in what it considers a chemical with much "therapeutical potential." Preliminary tests have shown, a spokesman for the firm told OPD last week, that glutamine can be effective in such varied applications as peptic ulcer therapy, efforts to increase the IQ of mentally retarded children, and the treatment of epilepsy and chronic alcoholism. The amino acid is currently used in tissue culture, including Salk vaccine production where it is an essential constituent in the nutrient media.

The storm of price reductions that hit vitamins during the past several months appears to have subsided, giving way to a welcomed but infrequent calm. Reports from a number of the industry's leaders last week indicated that prices, in general, have firmed up noticeably. The only possible exceptions, it was said, were niacin and niacinamide where overproduction, among other factors, continued to press hard on prices.

What occasioned this newly-found price stability was a question that somehow evaded a simple answer. As some trade people saw it, firmness was due to the cumulative effect of low prices that now permitted domestic makers to compete more favorably with importers, and expanding markets for vitamins in foods.

According to the Commerce department's Business and Defense Services Administration, production of ascorbic acid, thiamine hydrochloride and pyridoxine reached all-time highs last year. Ascorbic output totaled slightly under 4 million pounds, despite continued importations from Japan, Sweden and Australia; thiamine hydrochloride production amounted to just under 3 million, also in face of imports, principally from Japan; and pyridoxine output rose 27 percent, to 46,991 pounds.

Antihistamines—Requirements for antihistamines for use in cold preparations (normally, an APC-vitamin-antihistamine combination) have, of course, decreased during the past several weeks, but an all-seasons end-use, over the counter sleeping tablets—such as the famous Nytol—appear to be taking up the slack. Usage in hay fever and rose fever remedies should also help to maintain demand at a good level for the remainder of the summer.

Ascorbic Acid—Ascorbic acid (vitamin C) production reached an all-time high of 438 630 pounds in December, 1958. The annual total of 3,997,523 pounds was also a record high, despite continued importation of vitamin C from Japan, Sweden, Australia, and Italy and small quantities from Canada and West Germany.

Reviewing the 1953 market situation, Business and Defense Services Administration adds to its above comments that output of ascorbic acid has more than doubled since 1954. In addition to usage here — multi-vitamin preparations, and foods—BDSA says that exports have eaten up much of this increased production.

In 1958, for example, foreign buyers took approximately 12½ percent (547,195 pounds) of US output of ascorbic. Largest shipments (81,145 pounds) went to Brazil, the major portion to be used reportedly by the pharamaceutical industry. Belgium-Luxembourg received 71,173 pounds; Mexico 68,289; Canada 66,975; and Switzerland 58,154 pounds.

Ferric Chloride—Solitary price advance put through July 1 was a 1½ cents per pound increase for USP crystalline ferric chloride. New prices are 8½. per pound, truckloads; 9c. per pound for less than truckload quantities.

l-Glutamine — The l-glutamine market situation over the past year has been something of a stalemate. There has been no significant increase in production reportedly, and this, of course, has meant slim profits and necessarily high prices.

With the intention of breaking this stalemate, a leading producer of glutamine last week announced that it is now offering the chemical at $75 per kilo in 500-kilo lots, as compared with the $150 listing for 1 to 10 kilos. Competitors had made no move to revise schedules similarly by presstime.

If the new large quantity price stimulates usage, as intended, another sharp cut will be made in prices, spokesman for the firm told OPD last week.

Synthetic d,l-glutamine is currently available at $100 per kilo, based upon l-content. According to a report from a trade member, this material is still to be evaluated fully. He said that it is not yet certain that the "d" does not obscure the effect of the "l" or otherwise interfere with the clinical results.

It's thought that a supply of l-glutamine, while not one of the amino acids essential to man, is imperative for growth of various tissue cells and other microorganisms. It is found, for instance, in particularly high concentrations in blood and brain. And since glutamine can be formed only in certain mammalian cells, it's considered possible, in view of its high concentration in the blood, that the vascular system may serve as the mechanism that transports it to other areas of the body.

An example of the commercial application of l-glutamine in tissue culture is its use in Salk vaccine production, where it is an essential constituent of the nutrient media. Glutamine reportedly has also shown promise in such varied applications as peptic ulcer therapy, to increase the IQ of mentally retarded children, and the treatment of epilepsy and chronic alcoholism.

Menthol — Brazilian menthol is selling here for $6.25 to $6.40 a pound with Formosan bringing anywhere from $6.75 to

Price Trends

Advanced
Ferric Chloride, t.l., 1½c. per lb.

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	July 3, 1958
60.49	60.49	60.51	63.13

For Current Prices see page 9

Drugs and Fine Chemicals Output: April

Following statistics for selected fine chemicals and drugs were compiled by the Tariff Commission. Figures relate to the production of bulk material only.

		April	March
Acetylsalicylic acid	lbs.	1,793,536	1,512,444
Ascorbic acid and salts	lbs.	377,817	493,197
Dihydrostreptomycin	gms.	23,098,623	18,423,195
Niacin and amide	lbs.	263,584	362,046
Penicillin salts	million units	29,103,413	37,797,117
Pyridoxine	lbs.	*	*
Streptomycin	gms.	12,545,197	8,722,876
Sulfa drugs	lbs.	402,231	438,559
Tetracycline	gms.	11,551,780	11,850,690
Thiamine and derivatives	lbs.	13,306	12,015

* Data not reported.
** Revised.

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SPAIN:	Productos Roche S.A., Madrid
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Drugs, Fine Chemicals

$7. There is no Japanese material available, according to a recent report.

Polio Vaccine—It was learned last week that a leading drug maker may ask the Public Health Service for permission to make and sell a live-virus polio vaccine, after it completes a final study early this fall.

The vaccine which the firm plans to market is made up of three different strains of the polio virus. Such a combination, it's said, promises to give lasting immunity against all types of polio. This is in contrast with currently-used Salk vaccine which affords protection for a relatively short period.

At the present time, there are three live-virus vaccines (including the one referred to above) being tested around the world. All can be taken by mouth, either as a candy-flavored liquid or as a pill.

Federal officials have said that they will not license any of these vaccines until further tests are conducted. They are apparently alarmed over the fact that some of the vaccines, when injected directly into the spines of monkeys, have damaged tissues. Certain of the scientists working on the vaccines have replied to this argument by saying that this route (spinal injection) is not the natural entry for the virus and, therefore, should not be the criterion for passing on the vaccines.

Botanicals

Agar—Described as one of the firmest markets, agar USP Kobe No. 1 strip, is currently bringing $2.10 a pound. Dealers report adequate stocks, good but spotty demand.

Bloodroot—A domestic botanical, bloodroot is currently listed at 50c. to 55c. a pound. New crop is beginning to trickle in, but meeting only limited dealer interest, according to trade reports.

Chamomile Flowers—Price of chamomile flowers, Hungarian, has dropped to $1.75 a pound, from a previous listing of $2.25. Interest is described as moderate but the shortly expected (within 60 days) arrival of new crop has nonetheless pressured for a lower price. Roman flowers are still quoted at $1.50 a pound.

Nux Vomica—The quote on nux vomica was recently advanced 5 cents, to 20c. a pound. Behind the upward adjustment, a dealer said, were limited stocks here as well as indications from abroad that the new crop would once again be short. He added, however, that the future supply situation was still very uncertain, and it was possible that the new crop would be adequate.

Water Soluble Gums—Arabic gum imports in January, 1959, were 57 percent less than for the same month in '58, but were still greater than in November and December, Business and Defense Services Administration reports.

Tragacanth and karaya imports were 20 and 14 percent, respectively, lower in January than a year ago.

Locust bean gum inshipments, on the other hand, were 38 percent greater than in January 1958 and also were higher than in 9 other months of 1958. The greatest volume year in the 1950-58 period was 1956, when 15.1 million pounds were imported; the lowest, BDSA says, was 1957—7 million pounds—when production was severely depressed by adverse weather in Mediterranean areas.

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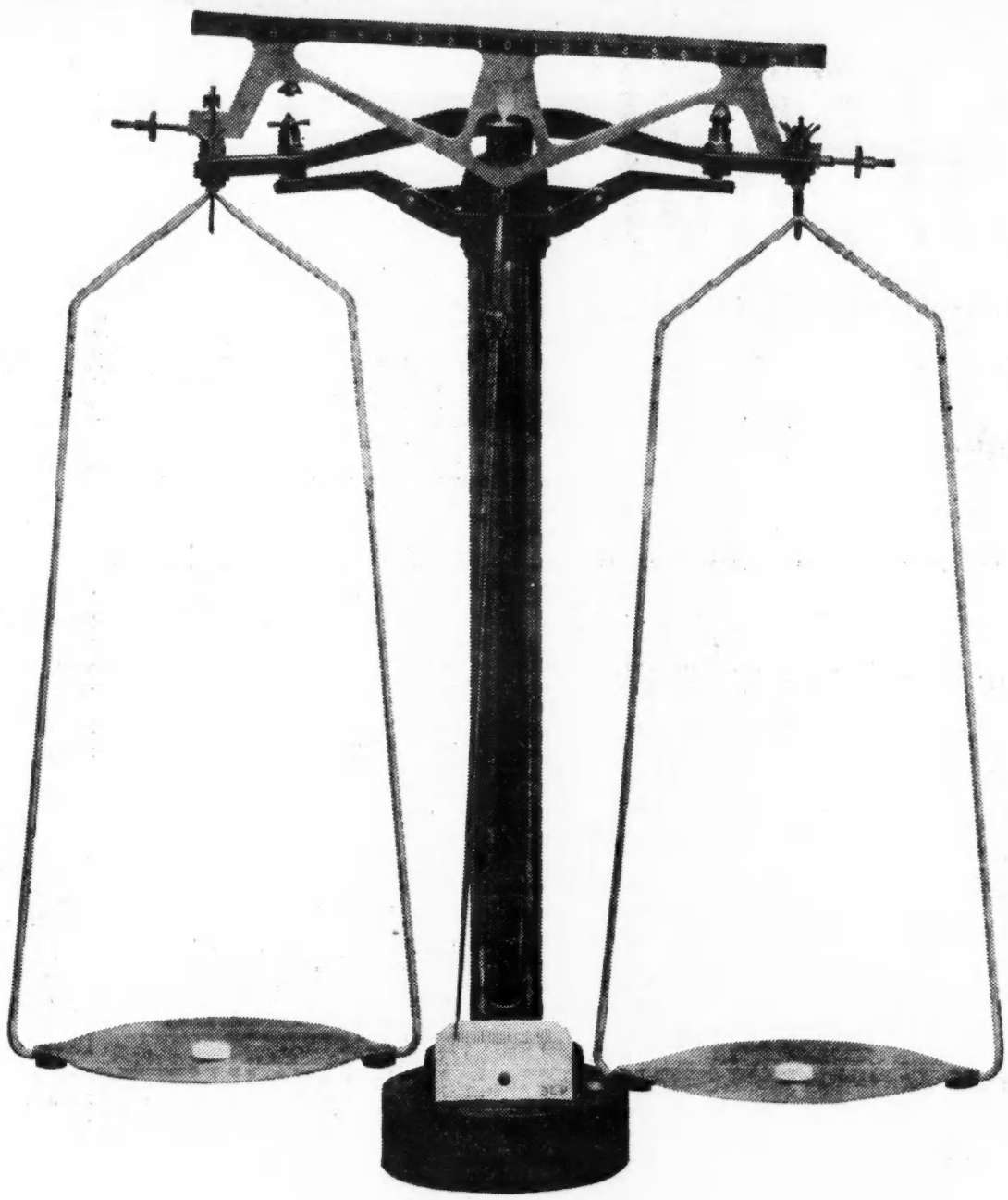

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160 bgs, Casablanca
ALOE—103 cs, H Weber & Co, Puerto Cabedlo
dl-ALPHA ALANINE—20 dms, National City Bank, Yokohama
ALUM—1,000 bgs, C M C Chemicals Inc, Liverpool
ALUMINUM POWDER—25 dms, Gold Leaf & Metallic Powders, Bremen
ALUMINUM SULFATE—280 bgs, Bremen
AMINOPYRINE—25 dms, Bremen
AMMONIUM CHLORIDE—200 bgs, Chemical Manufacturing Co, Liverpool
AMMONIUM PERSULFATE—100 dms, Mohegan International Inc, Rotterdam
AMYRIS OIL—7 dms, Olfactors Inc, Miragoane
ANILINE DYES—57 dms, Sandoz Inc, Bremerhaven
43 dms, Geigy Chemical Corp, Bremerhaven
8 dms, Geigy Chemical Corp, Havre
159 dms, Putnam Chemical Corp, Hamburg
16 dms, Arondy Corp, Liverpool
26 dms, Heemsoth Kerner, Liverpool
63 dms, Hensel Bruckmann & Lorbacher, Bremen
3 dms, Hensel Bruckmann & Lorbacher, Hamburg
14 dms, Carbic Color & Chemical Co, Rotterdam
37 dms, Rotterdam
18 dms, Bremerhaven
ANNATTO SEED—10 bgs, Craig Stanton Co, Progreso
ANTIMONY REGULUS—50 cs, C Gitlan, Antwerp
ARSENIC, WHITE—66 bbls, American Smelting & Refining Co, Tampico
ARSENIC TRIOXIDE—3.773 dms, American Firstoline Corp, Sete
723 dms, American Firstoline Corp, Marseille
ASBESTOS FIBER—534 bgs, Keasby & Mattison, Liverpool
ASCORBIC ACID—20 dms, Genoa
BARIUM SULFATE—5 cs, Picker X-ray Corp, London
BEESWAX—32 bgs, Biddle Sawyer Corp, Tampico
93 bgs, International Commodities Corp, Valparaiso
60 bgs, Cornelius Wax Refining, Puerto Plata
25 bgs, Machado & Co, Puerto Plata
30 bgs, Ciudad Trujillo
178 bls, Assab
97 bbls, Cap Haitien
BENZOL—2 dm , Chemical Process Corp, London
BENZOSULFIMIDE—20 dms, Chemo Puro Manufacturing Co, Yokohama
BLANC FIXE—300 bgs, C J Osborn Co, Rotterdam
BOIS DE ROSE OIL—10 dms, J E DeSouza, Manaus
48 dms, Lo Curto & Funk, Manaus
5 dms, Kline & Co, Manaus
10 dms, Swiss Credit Bank, Manaus
10 dms, Lo Curto & Funk, Callao
CADMIUM OXIDE—22 dms, Industrial Chemical & Dye Co, Antwerp
CALCIUM CARBONATE—500 bgs, Antwerp
CALCIUM NITRATE—300 bgs, Rotterdam
CAMPHOR POWDER—20 cs, Keelung
CANDELILLA WAX—188 bgs, Smith & Nicols, Tampico
138 bgs, Frank B Ross, Tampico
313 bgs, Tampico
CARAWAY OIL—2 dms, Rotterdam
CARAWAY SEED—200 bgs, R J Spitz, Rotterdam
200 bgs, Louis Furth, Rotterdam
300 bgs, Rotterdam
CARBON, ACTIVATED—175 dms, Natural Nydegger, London
CARDAMOM SEED—13 cs, Wm E Martin & Sons, Puerto Barrios
CASEIN—500 bgs, National City Bank, Buenos Aires
251 bgs, F H Paul & Stein Bros, Oslo
430 bgs, F H Paul & Stein Bros, Aalesund
200 bgs, Rotterdam
CASSIA—164 bls, C M Van Sillevoldt, Singapore
2,007 bls, Rotterdam
CASTOR BEANS—8,334 bgs, Baker Castor Oil Co, Salvador
1,969 bgs, Hollander Trading Corp, Port Au Prince
CELERY SEED—30 bgs, M J Golombeck, Marseille
20 bgs, B T French, Marseille
CETYL BROMIDE—2 dms, Heemsoth Kerner, Liverpool
CHALK, PRECIPITATED—60 bgs, C B Chrystal Co, London
CHESTNUT EXTRACT—550 bgs, Bordeaux
CHLORINATED RUBBER—200 bgs, C M C Chemicals Inc, Liverpool
CHLOROTHIAZIDE—4 cks, Leghorn
CINNAMON LEAF OIL—6 dms, Fritzsche Bros, London
CITRONELLA OIL—50 dms, Internatio Rotterdam, Keelung
10 dms, Keelung
COBALT POWDER—25 dms, C Hardy, Havre
COCOA BUTTER—[illegible], Rotterdam
COCONUT OIL, HYDROGENATED—60 tons, Fallek Products Co, Rotterdam
COD OIL—160 dms, Brown Bros, Bremen
COD LIVER OIL—100 dms, Arista Oil Products Co, Aalesund
CODLIVER MEAL—500 bgs, Wessel Duval & Co, Trondheim
COPAIBA BALSAM—10 dms, Wessel Duval & Co, Manaus
COPAL GUM—24 bgs, S Winterbourne & Co, London
CORIANDER SEED—400 bgs, Kenitra
CORN STARCH—400 bgs, Geismar & Co, Antwerp
284 bgs, Rotterdam
200 bgs, Antwerp
CORNMINT OIL—3 dms, Polarome Manufacturing Co, London
CREAM OF TARTAR—200 cs, Royal Bank of Canada, Barcelona
100 bbls, Barcelona
CRESYLIC ACID—440 tons, Manchester
CUBE POWDER—180 bgs, Foreign Domestic Distributors, Callao
CUTTLEFISH BONE—100 cs, Lisbon
DEGRAS—120 dms, Traders Service Corp, Bremen
81 dms, Chemical Bank, Bremen
55 dms, N I Malmstrom, Rotterdam
25 dms, Midwest Overseas Trading Corp, Liverpool
53 dms, Hudson Shipping Co, Genoa
110 dms, N I Malmstrom, Kobe
5 dms, American Lanolin Corp, Genoa
DEXTRIN—620 bgs, Manufacturers Trust Co, Rotterdam
800 bgs, Morningstar Paisley Inc, Rotterdam
DICYANDIAMIDE—3 dms, Natural Nydegger, Bremen
DIVI DIVI—2,023 seroons, H H Pike & Co, Ciudad Trujillo
DYES, COALTAR—6 dms, Orlex Dyes & Chemical Corp, Bremen
34 dms, L & R Organic Products Co, Rotterdam
4 dms, General Dyestuff Co, Oslo
144 dms, Hensel Bruckmann & Lorbacher, Hamburg
33 dms, Putnam Chemical Co, Hamburg
21 dms, Orlex Dyes & Chemical Corp, Hamburg
30 dms, American Dyewood Co, Antwerp
9 dms, Geigy Chemical Corp, Bremerhaven
15 dms, Rotterdam
EARTH COLORS—1,000 bgs, Reichard Coulston, Sete
1,575 bgs, Naftone Inc, Bremen
40 bgs, Frank D Davis Co, Rotterdam
60 bgs, Rotterdam
1,355 bgs, Reichard Coulston, Larnaca
EGG ALBUMIN—14 dms, Duche Uni Gum Corp, London
FISHLIVER OIL—3 dms, Interocean Chemical & Minerals Corp, Yokohama
FORMIC ACID—50 dms, Rotterdam
FUEL OIL—419,471 bbls, Esso Standard Oil Co, Aruba
7,958 tons, Esso Standard Oil Co, Caripito
11,397 tons, Esso Export Corp, Caripito
69,106 bbls, Hess Inc, Punta Cardon
163,479 bbls, Shell Caribbean Petroleum Co, Punta Cardon
15,657 tons, Metropolitan Petroleum Corp, Point Fortin
127,689 bbls, Metropolitan Petroleum Corp, Punta Cardon
266,883 bbls, Esso Export Corp, Aruba
GARNETLAC—49 bgs, Mac Lac Co, London
GELATIN—20 bgs, H Young, London
200 bls, United Hat Fur Cutting Co, Leghorn
400 bgs, Transatlantic Animal By Products Corp, Vera Cruz
400 bgs, Transatlantic Animal By Products Corp, Rotterdam
200 bgs, Duche Uni Gum Corp, Antwerp
30 dms, Arles Co, Havre
GINGER—65 bgs, Gillespie & Co, Kingston
60 bgs, Fritzsche Bros, Kingston
60 bgs, W L Willner, Kingston
90 bgs, Freetown
GLUESTOCK—75 bls, Brown Bros, La Guaira
GRAPEFRUIT OIL—7 dms, George Uhe Co, Marseille
GRAPHITE—1,200 bgs, Joseph Dixon Crucible Co, Bremen
GYPSUM, CRUDE—20,770 tons, U S Gypsum Co, Hantsport
IODINE, CRUDE—970 bbls, Chilean Nitrate Sales Corp, Tocopilla
IPECAC ROOT—10 bgs, H Weber & Co, Cristobal
IRON DEXTRAN—38 cs, Armour Pharmaceutical Co, Liverpool
IRON OXIDE—46 dms, Hudson Shipping Co, Oslo
1,087 bgs, Reichard Coulston, Malaga
435 bgs, C B Chrystal Co, Malaga
500 bgs, Malaga
ISO-OCTANOL—430 tons, Antwerp
ISOSAFROEUGENOL—4 cs, Export Import Services, Yokohama
JUNIPER BERRIES—84 bgs, Leghorn
LABDANUM CUM—5 cks, L A Champon & Co, Barcelona
LACTIC ACID—6 dms, E F Drew & Co, Hamburg
LAURIC ACID—30 bgs, Heemsoth Kerner, Rotterdam
LAVENDER OIL, SPIKE—11 dms, L A Champon & Co, Barcelona
LEMON OIL—1 dm, Lo Curto & Funk, Vera Cruz
LEMONGRASS OIL—13 dms, Leonhardt & Brush, Puerto Barrios
LIME OIL—2 dms, L A Champon & Co, Port Au Prince
15 dms, Ufinindo Corp, Port Au Prince
1 dm, Citrus & Allied Essential Oils Co, Puerto Plata
LITHARGE—200 dms, Eagle Picher Co, Tampico
LOCUST BEAN GUM—80 bbls, Chase Manhattaa Bank, Rotterdam
400 bgs, Paul A Dunkel, Rotterdam
200 bgs, Duche Uni Gum Corp, Rotterdam
200 bgs, Guaranty Trust Co, Barcelona
MAGNESIUM CARBONATE—105 cs, Chas L Huisking & Co, Genoa
MELAMINE—3,9.7 bgs, Liverpool
MENTHOL—38 cs, Fiddle Sawyer Corp, Marseille
MERCURIC OXIDE—55 bbls, Rijeka
MERCURY—95 flks, Callao
METHYLENE CHLORIDE—369 tons, Empire Trust Co, Antwerp
MOLASSES—477 tons, W R Grace & Co, Salaverry
MONOCHLOROACETIC ACID—80 dms, Bremen
MONTAN WAX—200 bgs, Strohmeyer & Arpe, Hamburg
MUSK, ARTIFICIAL—8 dms, Roure-Dupont Inc, Rotterdam
MUSTARD OIL—15 cs, Florasynth Lab, Rotterdam
MUSTARD SEED—300 bgs, C Gulden, Copenhagen
198 bgs, Louis Furth, Copenhagen
251 bgs, Berns & Koppstein, Copenhagen
NAPHTHALENE—1,000 bgs, Gallard Schlesinger, Antwerp
590 bgs, Gallard Schlesinger, Hamburg
NAPHTHOL—8 dms, Hensel Bruckmann & Lorbacher, Bremen
2 dms, Wedeman & Godknecht, Bremen
NUCLEIC ACID—2 kgs, Glasgow
NUTMEG—144 bgs, P H Petry, Hamburg
70 bgs, Van de Vries Trading Co, Singapore
70 bgs, C M Van Sillevoldt, Singapore
140 bgs, Singapore
NUX VOMICA—226 bgs, S B Penick & Co, Singapore
OLIVE OIL—50 dms, National Shawmut Bank Boston, Cadiz
25 dms, Genoa Packing Co, Cadiz
130 dms, S M Wolff Co, Cadiz
204 dms, National City Bank, Barcelona
50 dms, Irving Trust Co, Seville
50 dms, J Nicolaou, Algiers
260 dms, Uddo & Taormina Co, Cadiz
130 dms, Bankers Trust Co, Cadiz
259 dms, Uddo & Taormina Co, Genoa
100 dms, National City Bank, Seville
25 dms, Manufacturers Trust Co, Seville
200 dms, Unanue & Sons, Tunis
53 dms, Leghorn Trading Co, Haifa
79 dms, Eliyda Imports, Haifa
163 dms, Swiss Credit Bank, Malaga
52 dms, Mawer Gulden Annis, Cadiz
52 dms, C Orlando Co, Cadiz
104 dms, A Corra Corp, Cadiz
104 dms, Bankers Trust Co, Cadiz
1,425 dms, Smith Weihman Co, Hamburg
50 dms, First National Boston, Barcelona
50 dms, National Shawmut Bank Boston, Barcelona
24 dms, Second Bank Boston, Malaga
25 dms, Chase Manhattan Bank, Malaga
100 dms, Manufacturers Trust Co, Malaga
100 dms, Hanover Bank, Malaga
25 dms, Chase Manhattan Bank, Malaga
97 dms, National City Bank, Malaga
24 dms, Sterling National Bank, Malaga
205 dms, J H Schroder, Malaga
50 dms, Malaga
ORANGE PEEL—29 bgs, Malaga
PALMKERNEL OIL—1,127 cs, B M T Commodity Corp, Rotterdam
PAPRIKA—200 bgs, M J Golombeck, Hamburg
1,000 bgs, Lisbon
PEATMOSS—3,000 bls, Garden Supply Co, Hamburg
1,000 bls, Bruco Peatmoss Corp, Hamburg
600 bls, E Dunwoody, Bremen
1,500 bls, Marine Midland Trust Co, Bremen
250 bls, Halfmoon Trading Co, Rotterdam
2,300 bls, Garden Supply Co, Bremen
1,500 bls, Premier Peatmoss Corp, Bremen
1,250 bls, E J Lang, Bremen
4,000 bls, Premier Peatmoss Corp, Gydnia
1,000 bls, Marine Midland Trust Co, Hamburg
500 bls, Premier Peatmoss Corp, Hamburg
PEPPER, BLACK—420 bgs, Ludwig Mueller, Singapore
140 bgs, J H Elton, Singapore
210 bgs, A G Dunn, Singapore
125 bgs, C M Van Sillevoldt, Singapore
490 bgs, Singapore
PEPPER, RED—100 bgs, Louis Furth, Kobe
PEPPER, WHITE—140 bgs, A G Dunn, Singapore
70 bgs, Otto Gerdau, Singapore
PERCHLOROETHYLENE—471 tons, Empire Trust Co, Antwerp
150 dms, Marseille
PERU BALSAM—6 dms, H Weber & Co, Corinto
PETROLEUM, CRUDE—37,871 tons, California Oil Co, Sidon
117,758 bbls, California Oil Co, Salvador
266,767 bbls, Sohio Petroleum Co,
120,705 bbls, Cities Service Oil Co, Las Piedras
255,204 bbls, Socony Mobil Oil Co, Puerto La Cruz
137,348 bbls, Pure Oil Co, Maracaibo
205,537 bbls, Esso Standard Oil Co, Puerto La Cruz
POLYVINYL ACETATE EMULSION—25 bbls, Lloyd Associates, Bremen
POLYVINYL CHLORIDE RESIN—2,000 bgs, Mitsubishi Corp, Yokohama
POPPYSEED—150 bgs, Vande Vries Trading Corp, Rotterdam
150 bgs, I Grob, Rotterdam
200 bgs, M J Golombeck, Rotterdam
100 bgs, H Marmorek & Son, Rotterdam
350 bgs, Rotterdam
POTASSIUM NITRATE—300 bgs, Bankers Trust Co, Venice
440 bgs, Bankers Trust Co, Genoa
POTASSIUM PERCHLORATE—100 dms, Orlex Dyes & Chemical Corp, Gothenburg
POTASH, CAUSTIC—36 dms, B T Chemco Inc, Gothenburg
POTASH, MURIATE—2,275 tons, Potash Import & Chemical Corp, Bremen
POTASH, SULFATE—180 tons, Potash Import & Chemical Corp, Bremen
PRUSSIAN BLUE POWDER, CP, BRONZE—8 dms, C J Osborn Co, Rotterdam
QUASSIA CHIPS—250 bgs, S B Penick & Co, Kingston
QUEBRACHO EXTRACT—534 bgs, Tanimex Corp, Buenos Aires
QUINIDINE SULFATE—5 dms, European Chemical Co, Gothenburg
RICE STARCH—200 bgs, Manhattan Adhesives Corp, Bremen
ROCHELLE SALT—116 cks, Nylos Trading Co, Genoa
ROSEMARY OIL—24 dms, Seville
SAFFRON—11 cs, R H Belam Co, Antwerp
SAGE LEAVES—600 bls, Rijeka
SAGO FLOUR—224 bgs, Morningstar Paisley Inc, Singapore
SEEDLAC—250 bgs, Wah Chang Corp, Bangkok
SESAME SEED, HULLED—1,000 bgs, Louis Furth, Corinto
600 bgs, Nieman Bros, Corinto
125 bgs, Joel Bieler, Corinto
SESAME SEED, HULLED—600 bgs, Ideal Trading Co, Corinto
930 bgs, Archibald & Kendall, Corinto
100 bgs, Sokol & Co, San Juan del Sur
300 bgs, Levy & Levis Co, San Juan del Sur
300 bgs, R J Spitz, San Juan del Sur
200 bgs, R J Spitz, Cristobal
560 bgs, Greenwich Seed Co, Salvador
200 bgs, Levy & Levis Co, Corinto
380 bgs, Corinto
SODIUM ALGINATE—100 dms, Stein Hall & Co, Glasgow
SODIUM BICARBONATE—500 bgs, Chemical Manufacturing Co, Liverpool
SODIUM CYANIDE—250 dms, Chemical Manufacturing Co, Liverpool
125 dms, C Hardy, Havre
SODIUM SULFATE ANHYDROUS—600 bgs, Rotterdam
SODIUM SULFAQUINOXALINE—3 dms, Freedman & Slater, Rotterdam
SPERM OIL—100 dms, Ottol Oil Co, Glasgow
STRYCHNINE—2 cs, Lo Curto & Funk, Glasgow
SULFUR, CRUDE—3,205 tons, Armour Fertilizer Works, Coatzacoalcos
TALC—1,365 bgs, Charles Mathieu, Genoa
TAPIOCA FLOUR—1,680 bgs, Stein Hall & Co, Kohsichang
550 bgs, Lome
TARTARIC ACID—60 dms, Frank Samuel & Co, Marseille
THALLIUM SULFATE—1 dm, Chemimpex, Bremen
THYME LEAVES—50 bls, Wm E Martin & Sons, Marseille
100 bgs, M J Golombeck, Marseille
504 bgs, Seek & Kade, Marseille
TITANIUM DIOXIDE, ANATASE—800 bgs, Nylos Trading Co, Genoa
TOLU BALSAM—8 dms, Lautier Fils Inc, Limon
10 dms, Norda Essential Oil & Chemical Co, Limon
14 cs, Lo Curto & Funk, La Libertad
p-TOLUENE SULFONAMIDE—3 dms, Byron Chemical Co, Liverpool
TRICHLOROETHYLENE—300 tons, Empire Trust Co, Antwerp
236 tons, Chemical Manufacturing Co, Liverpool
100 dms, Gothenburg
100 dms, Venice
TRI-ISOPROPANOLAMINE—20 dms, Kelco Co, Glasgow
TURMERIC—60 bgs, Kellys America Ltd, Kingston
UREA—185 dms, BASF Inc, Rotterdam
UREA, SYNTHETIC—3,980 bgs, Chemical Manufacturing Co, Liverpool
VANILLA BEANS—14 cs, Damman & Co, Vera Cruz
VETIVER OIL—14 dms, Port Au Prince
m-XYLOL—1 dm, Karr Ellis, Hamburg
YLANG YLANG OIL—7 bbls, Marseille
ZINC CHLORIDE—42 dms, Riches Nelson, Antwerp
ZINC OXIDE—1,800 bgs, Liverpool
600 bgs, Antwerp
ZINC SULFIDE—580 bgs, C J Osborn Co, Rotterdam

Los Angeles

ALUMINUM FLUORIDE—1,002 bgs, J G Wiley, Rotterdam
ASBESTOS FIBER—3,000 bgs, C N Co, Hong Kong
CALCIUM NITRATE—10,000 bgs, Wilson & Geo Meyer & Co, Heroya
CARAWAY SEED—100 bgs, B C Ireland, Amsterdam
COPRA—500 tons, American Trust Co, Cebu
550 tons, American Trust Co, Legaspi
500 tons, Cargill Inc, Legaspi
1,120 tons, American Trust Co, Siain
COPRA CAKE—20,160 bgs, Procter & Gamble Co, Manila
2,240 bgs, Balfour Guthrie, Manila
11,200 bgs, American Trust Co, Zamboanga
EARTH COLORS—1,125 bgs, Naftone Inc, Bremen
FISHLIVER OIL—20 dms, W J Byrnes, Bergen
LOCUST BEAN GUM—45 dms, Duche Uni Gum Corp, Amsterdam
MAGNESITE—600 bgs, Smith Chemical & Color Co, Rotterdam
MONTAN WAX—100 bgs, Chemical Manufacturing Co, Bremen
PEATMOSS—1,000 bls, Atkins Kroll & Co, Bremen
500 bls, J Schumacher Co, Bremen
PEPPERMINT LEAVES—55 bgs, Ten Eyck & Co, Hamburg
SEEDLAC—265 bgs, Bangkok
TAPIOCA FLOUR—3,136 bgs, Stein Hall & Co, Bangkok
UREA—2,500 bgs, Atkins Kroll & Co, Antwerp
800 bgs, C M C Chemicals Inc, Liverpool
ZINC OXIDE—800 bgs, London

Philadelphia

BONEMEAL—550 bgs, Ralli Bros, Calcutta
CALCIUM CARBONATE—3,200 bgs, Pluess Stauffer, Antwerp
1,595 bgs, Hammill & Gillespie, London
CASEIN—400 bgs, A J Mills & Co, Auckland
CASTOR OIL—396 tons, Calcutta
CLAY CHINA—11,020 tons, Fowey
CORN STARCH—448 bgs, Rotterdam
DICALCIUM PHOSPHATE—1,000 bgs, Chase Manhattan Bank, Antwerp
NAPHTHALENE—395 bgs, Gallard Schiesinger, Hamburg
PETROLEUM, CRUDE—42,096 bbls, Gulf Oil Corp, San Lorenzo
220,063 bbls, Gulf Oil Corp, Bachaquero
151,176 bbls, Gulf Oil Corp, Mina Al Ahmadi
263,480 bbls, Atlantic Refining Co, Punta de Palmas
124,497 bbls, Shell Oil Co, Bachaquero
78,219 bbls, Patterson Oil Co, Punta Cardon
VANILLA BEANS—51 cs, Camax Co, Vera Cruz
43 cs, Zink & Trieste, Tampico
XYLENOL—190 dms, Hamburg
ZIRCON SAND—992 bgs, Sydney

San Francisco

BONEMEAL—481 tons, Stauffer Chemical Co, Buenos Aires
CELERY SEED—68 bgs, Hismoco American Co, Bombay
COPRA CAKE—10,000 bgs, Pacific Vegetable Oil Corp, Cebu
2,500 bgs, Berger & Plate, Cebu
FENNEL SEED—68 bgs, Hismoco American Co, Bombay
GUAR GUM—500 bgs, Hathaway Allied Products, Genoa
GYPSUM, CRUDE—16,869 tons, Kaiser Gypsum Co, San Marcos
IRON OXIDE—91 dms, Fulton National Bank, Oslo
LOCUST BEAN GUM—300 bgs, Hathaway Allied Products, Genoa
OLIVE OIL—48 dms, G Oberti & Son, Genoa
75 dms, Veronica Olive Oil Co, Genoa
PEPPER, BLACK—185 bgs, California Commodities Corp, Singapore
35 bgs, C W Yichang & Co, Singapore
150 bgs, Singapore
PETROLEUM, CRUDE—302,897 bbls, Tide Water Oil Co, Mina Saud
274,172 bbls, Standard Oil Co, Dumai
QUEBRACHO EXTRACT—203 bgs, First National Chicago, Buenos Aires
433 bgs, Barkev Importing Co, Buenos Aires
SILICOMANGANESE—1,000 bgs, Kinoshita & Co Nagoya
SULFAMIC ACID—178 bgs, P W Bellingall, Yokohama
TALC—1,000 bgs, Charles Mathieu, Genoa
TAPIOCA FLOUR—784 bgs, Stein Hall & Co Bangkok
TURMERIC—320 bgs, Alleppey
UREA, SYNTHETIC—400 bgs, C M C Chemical Inc, Liverpool

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- DIMETHYLTELLURONIUM DIIODIDE
- 2,6-DIMETHYLTHIANTHRENE
- 2,4-DIMETHYLTHIAZOLE
- DIMETHYL ZINC
- αα'-DINAPHTHYL
- ββ'-DINAPHTHYL
- 4,4'-DINITRO-1,1'-BINAPHTHYL
- 2,2-DINITROBIPHENYL
- 1,5-DINITRONAPHTHALENE
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DuPont Marketing Bleach That Restores Nylon Color

E. I. duPont de Nemours & Co., Wilmington, Del., is marketing what it describes as the first safe, easy-to-use bleach that is effective in restoring discolored nylon fabrics to original whiteness.

According to the firm, the restorative bleach is based on "Oxone" monopersulfate compound. DuPont says that though it is specifically designed to restore whiteness, it also can be used in washing machines, to prevent white nylon from discoloring.

Coaltar Imports

—Continued from page 4

to 1.7 million pounds, compared with 835,000 pounds in 1957. Imports from the Netherlands totaled 1.4 million pounds in 1958, compared with 446,000 pounds in 1957, and imports from the United Kingdom amounted to 1.2 million pounds in 1958, compared with 1.4 million pounds in 1957.

In 1958 sizeable quantities of products also were imported from Belgium (748,000 pounds); Denmark (710,000 pounds); Switzerland (624,000 pounds); France (567,000 pounds); Sweden (292,000 pounds); Japan (166,000 pounds), and Canada (108,000 pounds).

Imports of coaltar dyes, the next most important group of products, were 20.4 percent larger last year than in 1957. In 1958 imports of dyes (excluding synthetic organic pigments) were valued at $6.5 million (foreign invoice value), or 41.1 percent of total imports. In 1957 imports of dyes (excluding synthetic organic pigments) were valued at $5.4 million, or 40.6 percent of total imports.

In 1958 imports of synthetic organic pigments (toners and lakes) were valued at $286,000, compared with an estimated $224,000 in 1957.

Imports of perfume and flavor materials in 1958 ($610,000) were 55.6 percent greater than in 1957 ($392,000). In 1958 imports of other coaltar products (chiefly synthetic resins) were 20.0 percent smaller in 1957; imports of such products were valued at $1.2 million in 1958, compared with $1.5 million in 1957.

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Trade Name Chemicals & Specialties

Fire safety is important to everyone whether it be in the home, in industry, or out-of-doors. Research has proven that the most effective way to prevent fires is through scientific flameproofing of combustible materials with what are known as fire retardants. These are substances which decrease the rate of combustion rendering a material incapable of supporting flame. One area of application of fire retardants is textiles. Three accepted ways of imparting flame resistance to cellulose products are: (1) reducing the amount of liquid formed during combustion by catalytically promoting the decomposition of cellulose to carbon and water; (2) preventing the access of air by forming a fusible coating; and (3) releasing such non-combustible gases as water, carbon dioxide, ammonia or hydrogen chloride. Fire retardants used for the longest time in the textile industry are various water soluble, inorganic sales. Also used are ammonium sulfate, ammonium sulfamate, dibasic ammonium phosphate, and sodium tungstate. These materials are said to have no great affect on the strength or hand of fabrics, but are removed upon laundering.

Goodyear Tire & Rubber Company, chemical division, has put on the market **"Plioflex 1508X,"** a new, exceptionally light-colored, cold SBR rubber. Stabilized with a non-staining, non-discoloring antioxidant, **"Plioflex 1508X"** is said to combine excellent color with outstanding physical properties and to maintain these desirable characteristics after aging.

Direct color comparison tests on original and aged samples of **"Plioflex 1508X"** and other **"Plioflex"** rubbers were performed on a Gardner Color & Color-Difference Meter. According to Goodyear, results of these evaluations verified superior color and non-staining qualities of **"Plioflex 1508X."** Also, Goodyear states that after Fade-O-meter aging **"Plioflex 1508X"** exhibited considerably less cracking than the other polymers tested.

"Plioflex 1508X" is said to be easily formulated to yield a wide variety of bright colorful products. Suggested areas of application for the new rubber include shoe soles, white sidewalls, flooring, sporting and household goods.

The price of **"Plioflex 1508X"** is .2410 cents per pound, carload or truckload, f.o.b. shipping point. This price applies only to delivery points east of Rocky Mountains.

Rohm & Haas Company has put out a new price schedule for **"Pectinols,"** which are pectic enzymes. **"Pectinol A," "Pectinol M"** and **"Pectinol O"** are listed at .485 cents per pound, 2,000 pounds and over, f.o.b. Bristol, Pa. The price of **"Pectinol 5-P** and **RA-5"** is $1.90 per pound, 2,000 pounds and over, f.o.b. Bristol, Pa. Listings of **"Pectinol R-10, 10-M,** and **100-D"** are priced at $3.25 per pound, same basis. **"Pectinol 59L"** has a listing of $5 per pound.

Antifoaming Agents

All antifoaming agents have one thing in common: the amount needed to do a job is exceptionally small. Antifoaming agents find application in almost every industries. In the textile industry they suppress foam in dyeing and finishing processes; in the food industry defoamers are used in a wide variety of products and processes such as pickle solutions, meat sauces, soft drink syrups, vegetable oil and yeast. Some of the more commonly used antifoaming agents are 2-octanol, sulfonated oils, and silicones. Antifoaming agents increase productive capacity by eliminating waste space in process equipment, cuts processing time, and cuts the amount of waste material left over.

Arnold, Hoffman & Company, Inc., has several antifoaming agents for the paper industry on the market. **"Ahco Defoamer 511"** is a specially compounded blend of an organic solvent, selected hydrocarbons, fatty acids and a nonionic fatty acid condensate. It is a clear, light straw-colored liquid with a pH of approximately 5.5, a cloud point of from 43°F. to 45°F., and a specific gravity at 25°C. of 0.897.

According to Arnold, Hoffman, outstanding characteristics of **"Ahco Defoamer 511"** include such facts as: it does not produce any fat buildup, it remains in the water, rather than on the surface of the water, on the machine parts or in the paper, it is a readily emulsifiable liquid, and it is economical and efficient.

"Ahco Defoamer 99" is another Arnold, Hoffman antifoaming agent for use in the manufacture of all grades of papers, including clay or calcium carbonated filled sheets intended for quality publications, kraft, towelling, napkin paper, and wet strength tissue.

Among its characteristics, **"Ahco Defoamer 99"** has a creamy white color, is 35 percent active ingredients, has a pH range in a one percent solution of from 6.5 to 7.0, specific gravity of 0.954 at 25°C., and 7.9 pounds per gallon.

El Dorado Division of Foremost Food & Chemical Company has on the market **"Eldefoam 400,"** an antifoaming agent effective in latex, acrylic and polyvinyl acetate base paints. **"Eldefoam 400"** is a clear light colored liquid. Approximate properties, according to El Dorado, are a freezing point of —6°C., a boiling range of from 180 to 260°C., a flash point of 185°C., a fire point of 215°C., specific gravity at 25/4°C. of 0.97, viscosity at 25°C. of 16½ centipoises, and it is soluble in most organic solvents.

Formulas with 0.3 to 0.5 percent **"Eldefoam 400"** have been proven through tests to be most successful. The product need not be ground in but may be premixed with one of the constituents or dispersed directly into the paint at any time during the formulation. Under normal conditions, El Dorado states that **"Eldefoam 400"** is perfectly stable and requires no particular care in storage.

Flame Retarding Agents

Fire has always been a hazard not merely to be avoided, but to be guarded against by every possible means. In recent years, the use of fire retardants has become more and more popular as a means to prevent or at least reduce the chances of fire. A fire retardant is described as being a substance which slows down the speed of combustion of an inflammable object and makes it incapable of supporting flame. Fire retardants prevent flames from spreading, and also from smoldering.

"Fyran BP" is a non-durable liquid fire retardant put out by Crown Chemical Corporation. It is described as being a stable, neutral compound which does not cause faries to stiffen even in high percentage applications. Furthermore, the difference in hand between the treated and untreated fabric is practically imperceptible.

Fyran BP" is described by Crown as being a clear, colorless syrup with a pH in a 15 percent solution, of 7.5 plus or minus 0.1, an active content of 70.0 plus or minus 1.0 percent, and a density 13.3 pounds per gallon. According to Crown, **"Fyran BP"** is designed to give maximum flame-resistance with minimum afterglow on a wide range of fabrics. The company also states that **"Fyran BP"** is not removed from fabrics by dry cleaning

—Continued on page 62

WHAT'S REPORTED ON HERE

Though coverage in the Trade Name Chemicals & Specialties market report encompasses twenty classes of chemicals, only a few of them are mentioned in this issue. Here's the entire list:

Adhesives, antibacterials and fungicides, antifoaming agents, antioxidants, antistatic agents, blowing agents, catalysts and accelerators, chelating agents, chemically processed oils, emulsions and latexes, enzymes, fatty acid derivatives, feed supplements, filtering materials, ion exchange resins, surfactants, synthetic waxes, textile chemicals, thickening and suspending agents, and ultraviolet absorbers.

If you have suggestions for any additional materials that might be included in this section, write OIL, PAINT AND DRUG REPORTER'S Technical Editor, 30 Church street, New York 7.

Essential Oils, Aromatics

Even though Formosan citronella advanced 2½ cents per pound, New York dealers agreed the pricing curve is leveling off. Two weeks ago, a tight supply situation upped the price of Formosan 10 cents per pound and Ceylonese 7 cents per pound, but speculation last week was that the existing quotations would remain in effect temporarily and then gradually take a downward turn. The only other significant change in essential oils last week was a 15 cent per pound reduction in the price of natural Italian Bergamot.

No price changes showed up in the aromatics, but as usual firm markets were predicted in several areas, such as citronellol, citral, heliotropin and eugenol. There are still a few dealers who insist the vanilla bean advance of two weeks ago will serve to strengthen the market for vanillin, but this view is by no means shared by all aromatic chemical experts.

Another view that is not shared by all is the abundance of perfume in the Soviet Union. For, if the Soviet Exhibition at the Coliseum here in New York is really indicative of the life the Russian's lead, one might logically assume that the average Russian woman is just as good a perfume customer as the average American woman. Artistically arranged showcases contain bottles that look as elegant as any in our own Fifth Avenue windows, but, of course, their aroma is sealed inside.

Also attracting the attention of the distaff viewers were delicately shaped pastel cakes of soap that looked good enough to eat.

This brings to mind the information reported in this publication in May telling about the Russians' purchase of some 15 tons of the number two and three grades of ylang ylang. Such material is usually used in making cosmetics and scenting soaps, according to technical data received here.

Among the seeds and spices, it was noted that a good portion of the Indonesian black pepper leaves the country via smuggling operations. Shipments are, therefore, irregular.

Vanilla beans remained quiet last week after their substantial gains of two weeks ago. The tight situation is blamed on reduced production in the two principal growing regions, Madagascar and Mexico.

Price Trends

Advanced

Citronella, Java-type, 2½c. per lb.
Poppyseed, Dutch, ½c. per lb.

Reduced

Bergamot, natural Italian, 15c. per lb.
Cinnamon, Ceylon No. 2, 1c. per lb.
No. 0000, 2c. per lb.
Cloves, Madagascar, ½c. per lb.
Mace, Siauw, No. 2, whole, 15c. per lb.
No. 2, siftings, 15c. per lb.
Nutmegs, West Indian, 5c. per lb.
East Indian, 4c. per lb.
Sesameseed, Nicaragua, hulled, ½c. per lb.
San Salvador, ½c. per lb.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	July 3, 1958
145.43	145.50	145.46	145.70

For Current Prices see page 9

Essential Oils

Bergamot—The dealers don't seem to know whether to raise or lower the prices of this perfume agent, so they're doing both. Three weeks ago, this publication reported that one dealer had raised his price and last week we ran across another dealer who saw fit to lower his.

The current quotation is from $12.60 to $14 per pound as compared with the quotation a month ago before either the advance or the decline, which was from $12.75 to $13.75.

Bois de rose—Firm markets since early spring, both the Brazilian and the Peruvian types remain at their previous quotation. The Brazilian ranges from $1.90 to $2.75 per pound in drums and the Peruvian ranges from $1.80 to $2.30 per pound in drums.

Caraway—The price continues at $3.10 per pound, but dealers maintain that the market bears watching. An advance is anticipated.

Citronella—The phenomenal rise of two weeks ago was followed last week by another rise, but the general feeling among dealers here is that the pricing curve for Formosan is leveling off. Last week's rise, 2½c. per pound, brought the price up to 72½c. per pound.

The reason for the tight situation, according to informed sources, is that the European dealers are buying heavily. Their regular supplier, Red China, is swamped with orders and cannot accommodate them so the buyers from the continent are flocking to Formosa to fill their quotas.

Admittedly, the price rose rather drastically within the past two weeks—from 60c. to 72½c. per pound for the Formosan and from 53c. to 60c. for the Ceylonese—so it is anticipated that any further price revisions will be downward.

No change was noted last week in the price of material from Ceylon. It was reported, however, that Ceylon citronella was hard to come by.

Clove bud—The market has shown no further signs of weakening since its 5c. per pound reduction a month ago. It remains at $2.70 per pound.

Clove leaf — Reliable reports indicate that the source price is almost 50 per cent lower now than it was in late May when the shippers were most reluctant to ship material—either because there was no oil or because the replacement cost was uncertain.

This source reduction, however, does not mean that spot prices have been correspondingly lowered. As of last week, clove leaf oil was maintained at the same level it has been quoted at for the past month, $1.38 per pound. And, according to the New York dealers, it would be most unprofitable for them to dispose of the stocks they paid dearly for at rates much below the $1.38 mark.

Coriander — Slight weakening is reported.

Cubeb—This versatile oil—sometimes used to make throat lozenges, sometimes used to flavor bitters and sometimes used to make imitation black pepper—remains steady at $12 per pound.

Dillweed—The market remains firm at prices ranging from $3.10 to $4.55 per pound.

Geranium — Information from source indicates that the already-firm market for the Bourbon type of oil is strengthening. This was first reflected in higher shipping prices and is expected eventually to be reflected in higher spot prices. Current prices, according to the few dealers who have stocks of such expensive material, range from $19.50 to $21 per pound in cans.

Such a strong market situation will be short-lived, however, according to informed sources here. It is anticipated that prices will receed once the new crop is harvested in October. That crop, by the way, is a full one and, of course, escaped the March floods that heavily damaged the previous crop.

Grapefruit—Slightly increased demand, precipitated by the hot weather, has served to strengthen this market. The previous quotation, $2.10 per pound remained in effect last week.

Hemlock — A weakening market for some months, hemlock is available for prices ranging between $2.55 to $3.55 per pound.

Lemon — Now that the pricing flurry has calmed down, California independent lemon is steady at $3.10 per pound. Exchange brand remains at $3.50 per pound.

Nutmeg—Markets for material for both the East and the West Indies are steadily weakening, but no further decline in price was noted last week.

From a price of $9.50 per pound, New York dealers generally agree that nutmeg will decline considerably though they never expect it to sink to its pre-hurricane level, $3 per pound.

Lemongrass—Heavy buying on the part of dealers from the United Kingdom and Europe has been responsible for strengthening the market considerably, it was reported last week. Current prices range from 95c. to $1.45 per pound in cans or drums.

Lime—Indications are that the market for both Mexican and West Indian material is weakening.

Mace — As this publication predicted two weeks ago, mace declined a bit in

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Essential Oils

price last week. The range, which was previously $9.75-$15.75 per pound dropped to $9.75-$12.25 per pound.

Back in 1955, before the hurricanes struck both the East and the West Indies, mace was selling for as little as $2.75 per pound. Then in 1957, after the full impact of the damage had been felt, it went up as high as $15 per pound. Last week's low is expected to decline even further in the future, the dealers reported.

Ocotea Cymbarum — A strengthening market for over a month, ocotea cymbarum remained at its previous quotation last week. It still ranges between 43c. and 85c. per pound in drums.

Patchouli—The gradual rise that began in mid April seems to have levelled off, a compilation of opinions from dealers here indicates. On April 20, this publication quoted $4.10 per pound, then on May 4, it quoted $4.80 per pound. Repeated reports of another price rise came in, but none has materialized and now it is said that $4.80 per pound may be considered the price plateau for patchouli.

Pimento leaf—Good demand has put the Jamaica variety on the hard-to-get list, according to reliable reports received here last week. Prices range from $2.10 to $2.40 per pound in cans.

Sandalwood—The price is firm, but there are very few offers from source, reliable reports indicate. This is because producers are awaiting the sandalwood auctions later this month at which time they will offer the new crop. Until then, little trading is likely to be done and only after the auctions will an accurate 1959 price be established. Currently, sandalwood ranges from $13.25 to $14.50 per pound in drums.

Vetiver—Indications are that the Bourbon type of this oil is strengthening. It remains at its previous quotation, $12.25-$14.50 per pound.

Aromatic Chemicals

Citral—This lemongrass derivative may be in for a price rise as a result of the increasingly strong market for its parent oil, but as yet none has occurred.

Citronellol—A firm market is in prospect as a result of the firmness of citronella from which it is derived.

Vanillin—Apparently the substantial rise in price of vanilla beans has had no effect on this synthetic vanilla flavoring. It is currently being quoted thus: ex lignin in 1,000 pound lots, $3 per pound, ex lignin in 500 pound lots, $3.10 per pound and ex lignin in 100 pound lots, $3.25 per pound.

Seeds and Spices

Nutmegs—Material from the West Indies has been reduced in price while that from the East Indies is showing signs of advancing.

Pimento—Source prices of the Jamaican continue well above spot prices, it was reported. Offerings of the new crop from Honduras have been withdrawn because of a hurricane that recently struck the area.

Pepper—The market was steady and slow last week, but dealers here are uncertain of the future. It seems that economic and political difficulties have upset the stability of the Indonesian money and buyers are reluctant to trade on the basis of the rupiah. Most of the pepper, therefore, leaves the country via smuggling operations and shipments are necessarily irregular. Quality, it was said, is not up to par.

Turmeric—Now that all of the shipments of this year's crop of Alleppey have arrived, it has been calculated that the total imports for 1959 are below total imports of last year. Besides this, it was reported, that very few stocks of Madras, Haitian, Jamaican and African are available.

Paint Makers Set

—*Continued from page 5*

of out-of-pocket costs, with the proviso that they be compensatory. The rates would have no relation to rates charged by competing carriers but would simply have to be compensatory in that they were high enough to meet out-of-pocket costs and include a return on investment after taxes. He argued that congress sanctioned the new rule when it approved last year's changes in the transportation act.

Mr. Langdon was supported in his arguments by Robert N. Burchmore, counsel for the National Industrial Traffic League, who told the commission that the shipping public was entitled to the benefits of competition between the rails and the highways on the movement of paints, which the public has not had for many years.

He said that the present rail rate structure is out-moded and a general revision is needed—one that recognizes the inherent advantages of each form of transportation. He joined Mr. Langdon in expressing the hope that the ICC would use this opportunity to lay down new and clear lines of rate-making that will guide the shippers and carriers alike in the future.

Edgar Watkins, counsel for the motor carriers fought back strongly against the arguments of railroads and the shippers, claiming that a rate, even though it is at a compensatory level can still be destructive of competition. The proposed rail rates, he said, are of this character and therefore are unlawful even under the new law.

'Shown No Basis'

He said that the railroads have shown the commission no basis for the selection of the new rates nor has there been any explanation of how the rates were made. No comparison was made with the motor rates and no disposition has been shown by the rails to meet the rates of the motor carriers, he added.

He described them as a "wanton reduction" in rates proposed by the railroads simply "because they have been losing some traffic in paints."

He warned that the highway carriers will not sit idly by and lose this traffic to the rails, but predicted that if the reduced rail rates are allowed, the motor carriers will fight back with reduced rates on their own part. The result will be, he said, needless reductions in revenue to all types of traffic.

He noted that the proposed new rail rates on paints will be less than the rates now applicable to paint ingredients. He said that it was unheard of that a finished product should move cheaper than its ingredients and predicted that the situation would not last long.

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Coatings Materials

Trade sources were betting last week that the steel industry's wage dispute would be settled without a strike, but this was far from a certitude, and the pace of inventory buying continued undiminished. In alkyds and phthalates such buying was particularly evident due to the recent attempt to advance phthalic anhydride. Consumers have reasoned that since a later attempt may well succeed, particularly if there is a steel strike, why not absorb as much material as possible right now? One upshot of this is a tight market, probably the first for phthalates since they were introduced.

Producers of DOP agreed though that enough material was around to meet all actual consuming needs, heavy as these are at present. Where delays do occur, they are said to be of short duration, and doubtless this involves material that is just going into inventory for price protection or strike-insurance.

With all this talk of inventory buying, it nevertheless has not been forgotten that new model cars are selling and selling well, which means that today's boom is more than just a speculative bubble. The importance of this can not be underestimated, trade sources said, because Detroit's firmness should give the economy plenty of resilience to withstand whatever reaction occurs during the third quarter, after the strike has either taken place or not taken place. Without Detroit as a counterweight, the economy might well fall back into last year's doldrums, it was said.

Price tone was steady all along the line last week. In casein, though, all supply sources but Argentina have tightened up, and this has led some dealers to suspect that higher prices may be in the offing. Australia has submitted no offers yet on its September yield and appears to have no material afloat. Apparently farmers down under are turning to milk powder and cheese as better profit-makers. If this trend becomes widespread, it will bear watching, a dealer said, since it could well end with Australia as far out of the volume casein market as this country now is.

A release from the Tariff Commission late last week reported April output of titanium dioxide at 39,974 short tons, a decline from the previous month's 45,302 tons, but sharply higher than last April's 27,977 tons. Seasonally declining needs of the paint industry were indicated.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	July 3, 1958
103.04	103.04	103.03	101.45

For Current Prices see page 9

Prime Pigments

Aluminum Pigments—April saw shipments of 1,073,000 pounds of atomized powder, 449,000 pounds of flaked powder and 1,656,000 paste, net, according to Tariff Commission data. These figures were up sharply from the previous month's 973,000, 343,000 and 1,262,000 pounds, respectively, and even more conspicuously better than last April's 600,000, 277,000 and 1,077,000 pounds, respectively.

In light of the above it is hardly necessary to say that a very good demand exists at present which should continue until plant shutdown time. Producers report adequate supplies on hand and prices unchanged at prevailing levels.

Carbon Black—The following figures in thousands of pounds, indicate production, shipment, stocks and exports of carbon black for May, 1959, with figures for April, 1959, and May, 1958, reported for comparison:

	Furnace	Contact	Total
Production			
May, 1959	138,309	27,752	166,061
April, 1959	136,765	27,624	164,389
May, 1958	94,286	26,623	120,909
Shipments			
May, 1959	117,323	26,386	143,709
April, 1959	131,435	24,453	155,888
May, 1958	102,547	26,091	128,638
Stocks			
May, 1959	170,917	88,368	259,285
April, 1959	149,931	87,098	237,029
May, 1958	254,559	90,417	344,976
Exports			
May, 1959	*	*	*
April, 1959	29,600	11,702	41,302
May, 1958	21,879	12,698	34,577

* Not available.

Chrome Colors—Production rose to 3,[illegible]4 short tons in April from the previous month's 3,073 and looked quite good against last April's 2,733 tons. Stocks held virtually unchanged at 3,765 tons on April 30 as compared with 3,706 a month earlier.

The breakdown by individual colors gave an April output of 585 tons of chrome oxide green, 2,626 tons of chrome yellow and orange, and 663 of molybdate chrome orange, as against 363, 2,084 and 647, respectively, for the previous month and 299, 1,941 and 493, respectively, for April a year ago.

Fillers and Inerts

Asphalt — Market for asphalt and asphalt products hit 18,179,099 short tons in 1958, for an overall rise of 11 percent, according to a Bureau of Mines survey. The group thus resumed the steady annual sales advance that had been interrupted in 1957 by a sharp downturn during the last quarter.

For 1958, figures showed a 12 percent advanced in asphalt used in paving as against a 2 percent drop in 1957 and a ten percent advance in roofing as against the previous year's four percent drop. Paving asphalt, the Bureau said, accounted for 74 percent of the total domestic market and roofing for seven percent with the remaining nine percent distributed among miscellaneous outlets.

The trend of higher imports and lower exports continued during the year, the former increasing six percent to 1,360,000 short tons and the latter dropping 30 percent to 197,000 short tons.

Sales of gilsonite totaled 317 short tons for the year, with a market value of $4,900,000, the Bureau noted.

Lacquer Materials

The attempt to boost phthalic anhydride several weeks back has put some more steam behind a phthalate market that was already booming. Consumers reason that since a later attempt may well succeed, why not absorb as much as possible now. The upshot of this is a tight market, probably the first since phthalates were introduced.

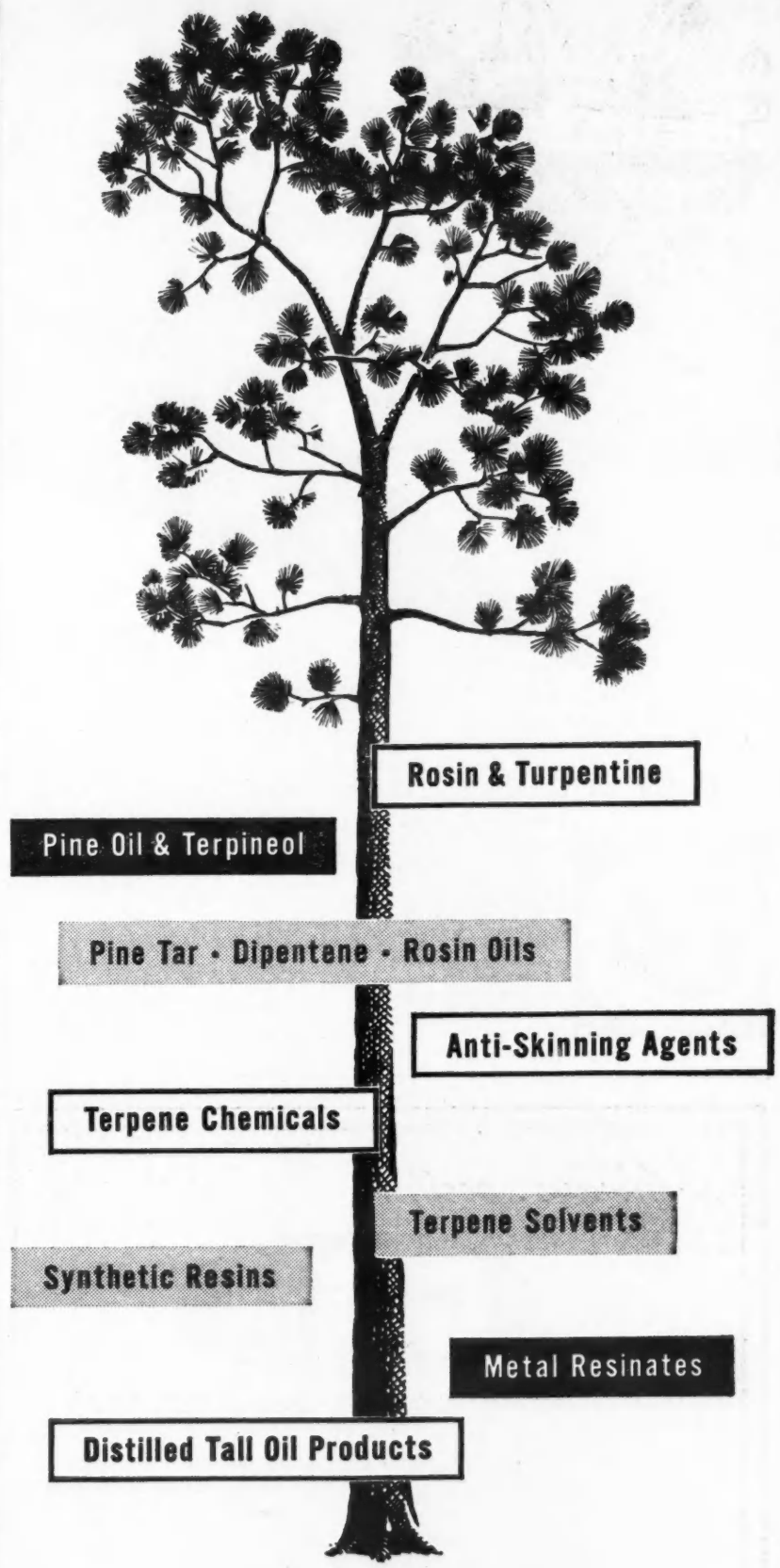
Producers agree though, that enough material is around to meet all actual consuming needs, heavy as these are at present. Where delays do occur, they are of short duration and doubtless this involves material that is just going into inventory for price protection or insurance against a possible steel strike. As to the strike situation, incidentally, most of the sources this department has contacted are leaning to the view that both sides in the labor dispute would like to avoid a walkout and are threshing about for means to do so.

A glance at the street gives ample evidence that the new model cars are selling and selling well, and this means that today's boom is more than just a speculative bubble. The importance of this cannot be underestimated, trade sources say, since it will give the economy plenty of resilience to withstand whatever reaction occurs during the third quarter from all the inventory buying that the strike scare has caused. Without Detroit as a counterweight, the economy might well fall back into last year's doldrums.

Miscellaneous

Casein—All grades but Argentine have tightened up, and this has led some sources to suspect that higher prices may be in the offing. But for the present Argentine is still available at 19½c. to 20½c. per pound, mostly 20c., for delivery in July or August, minimum one carlot.

Australia has not yet submitted offers for its September yield and there appears to be no current output afloat. Advices from that country indicate that many farmers are producing more milk



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Coatings Materials

powder and cheese, and therefore less casein, because of better profits from the former. This is a trend that bears watching since it could well end with Australia as far out of the volume casein market as this country now is.

France, in contrast, is producing as much as it can, but drought conditions and its own heavy consuming needs have left it with little to export. Nevertheless, limited quantities are currently available in this market on the basis of 19¾c. per pound, forward shipment.

Natural Resins

Copal Gum—Ample supply was on hand last week to meet a seasonably normal business volume. Congo copals moved at 25c. to 26c. per pound for No. 1, 22c. to 24c. for No. 2 and 16½c. to 19c. for No. 3. East India batu bold dammar met rather good call at a range of 14½c. to 16½c. per pound. There were no price changes during the week.

Shellac—In view of Calcutta's steadiness, current price patterns are expected to hold. Demand has slowed down a bit to a Summer pace, but since prices are once again firmly pegged to replacement costs they are unlikely to be affected by Summer doldrums, trade sources say.

Orange grades are available here at long-standing levels of 36c. to 39c. per pound for lemon No. 1, 35c. to 37c. for No. 2 and 32c. to 34c. for superfine. Bleached is moving at 46c. for bonedry and 56c. for fully refined in bags, 1,500-lb. lots.

Naval Stores

Pine Gum—For the week ended June 20 the average price per standard barrel of commercial crude pine gum was reported at $26.98 as compared with the previous week's $26.64 and $25.09 a year ago. The volume of gum deliveries amounted to 18,250 barrels as against 16,075 the previous week and 16,800 a year ago. Each barrel contained an average 10.83 gallons of turpentine and 299.1 pounds of rosin. Gum grading percentages ranged as follows: WW, 35; WG, 26; N, 18; M, 14, and K and below, 7.

Rosin—Market for current output continued strong during the week ended June

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Coatings Materials

26 even though CCC sales to dealers and consumers at prices set on June 1 have deflected some demand from it, demand for molten rosin especially. Agricultural Marketing Service has reported that since April 1, gum receipts have run 5.3 percent behind the like period of last year. Sales for the week were tallied at 7,077 drum equivalents, apportioned among 12.3 percent drums, 1 percent bags, 27.7 percent tankcars and 59 percent export drums, as compared with the previous week's 9,702 drum equivalents.

Turpentine — A strong market during the week ended June 26 brought sales of 243,472 gallons, including 60 percent exports by tank steamer for delivery in early July.

Rosin, Gum

(USDA, per 100 lbs.)

	Fri. June 26	Mon. June 29	Tues. June 30	Wed. July 1	Thurs. July 2
Drums—					
M	...	...	$8.48	...	...
N	...	$8.28	8.30§	...	...
WG	...	...	8.90§	...	$9.05
WW	...	9.00	8.85§	$8.80§	9.20
Bags—					
G	...	...	8.64§	...	...
K	$8.55	...	8.60	...	...
M	8.55	...	...	...	...
N	8.60	...	8.65	8.64	...
WG	8.65	...	...	...	...
WW	...	...	...	8.88	...

Tankcars (for week ended July 2)—
WG, $8.40; N, $8.20; M or better, $8.20; WW, $9.50

Sales, USDA

253*	1,878*	5,812	3,067*	993*

New York
(Per 100 lbs., c.l., Friday)
WW, $10.40; WG, $9.65; K-M, $9.75

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	.5375	...	.54	.54	...
Sales	4,000¶	...	4,000¶	8,000¶	...

* Drums equivalent. ¶ Gallons. § Average price. , G or better.

Resin Firm in Venezuela Is Formed by Reichhold

Reichhold Chemicals, Inc., has formed a new company to produce synthetic resins in Caracas, Venezuela. The firm, named Resinas Venezolanas C. A., was formed with a group of prominent Venezuelan industrialists and will manufacture its products under formulas and technics developed by RCI. All arrangements for setting up the plant and installing the equipment have been made.

Manager of the new company will be Dr. Ricardo Pines, who has gained extensive knowledge of the production and application of these resins in RCI plants and laboratories. Principal consumers of these resins will be the surface coating, adhesive, polyester and plastics industries of Venezuela.

Gen'l Chemical Learns

—*Continued from page 7*

bors caused by the gas have been reported to the plant superintendent."

This, says General Chemical, is what an Associated Press wire service bulletin said as sent out to daily newspapers and radio stations:

"Denver—a thick murky cloud of sulfur dioxide spread over parts of Denver today, causing illness in many homes. The gas drifting from two 100-foot stacks of the General Chemical division of Allied Chemical Corporation snarled traffic over three-quarter of the Denver area.

"Police and fire department squads battled fog. There were numerous reports of minor illnesses, particularly in southwest Denver. Paul Morgan, superintendent of the chemical plant, said the sulfur dioxide was produced with 'operation difficulties' developed in a reactor used in producing sulfuric acid.

Several fire crews attempted to dissipate the gas clouds drift by spraying a curtain of water high into the air near the source of the cloud."

New York Radio Reports

Then there were the New York radio reports, as recorded by General Chemical:

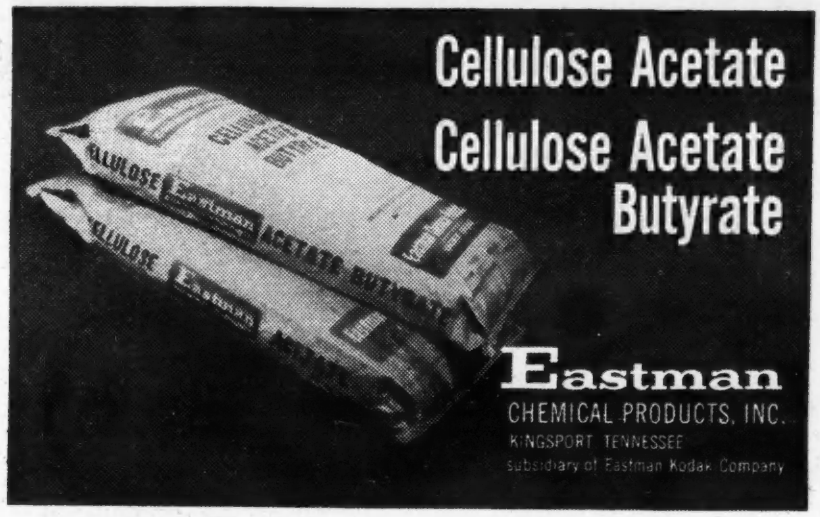
Harry Hennessy over WOR at 9 a.m.: "Traffic is snarled over three-quarters of the Denver area and illness has been caused in many homes in the Colorado city by a thick murky cloud of sulfur dioxide. The gas is drifting down from two huge stacks of the General Chemical Division plant of the Allied Chemical Corporation. Police and fire department squads in Denver are battling the fumes."

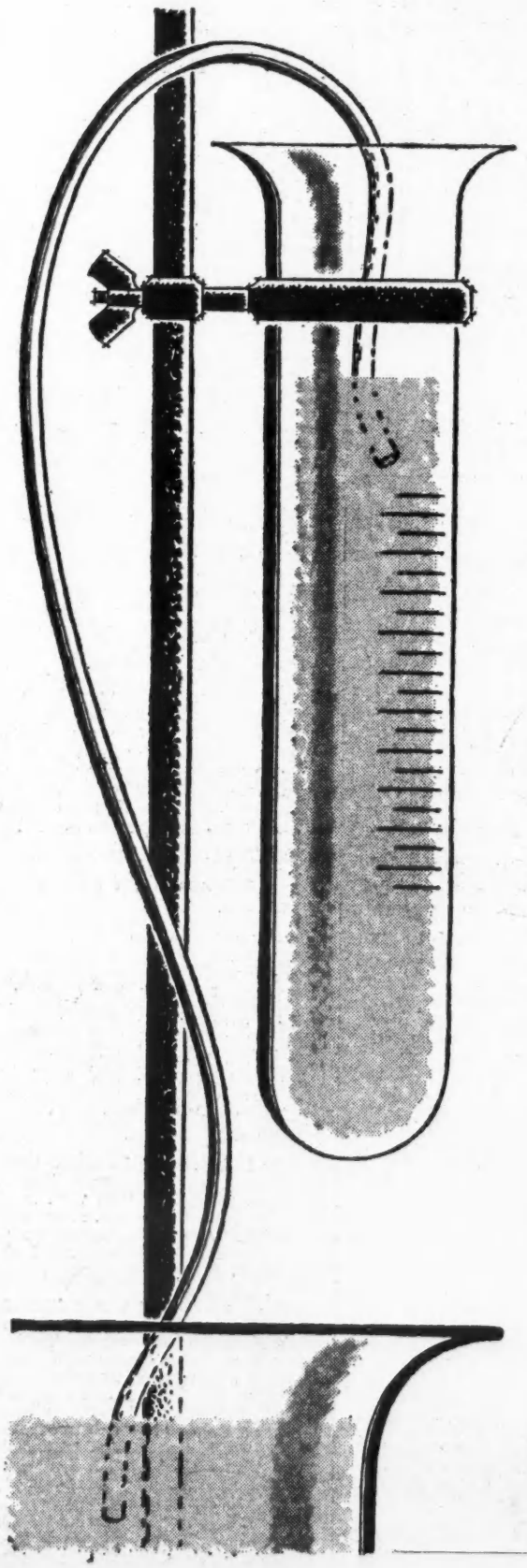
Olin Tyce over WCBS at 9 a.m.: "Traffic is snarled over three-quarters of the Denver, Colo., area and illness has been caused in many homes in that Colorado city by a thick murky cloud of sulfur dioxide. The gas is drifting down from two huge stacks of the General Chemical Division plant of the Allied Chemical Corporation. Police and fire department squads are now battling the fog."

Henry Gladstone over WOR at 10 a.m. "Police and fire experts are battling a strange fog in Denver, Colo. The thick murky fog is said to be caused by sulfur dioxide gases emanating from two huge stacks of the General Chemical Division plant of Allied Chemical Corporation. Traffic is reported tied up in knots over three-quarters of the city and scores of persons have applied for relief to Denver hospitals and officials of the company have not been reached for comment."

CIBS Golf Outing Tuesday

Cosmetic Industry Buyers & Suppliers Association will hold its first golf outing tomorrow (July 7) at the Nassau Country Club, Glen Cove, L. I. CIBS' will also hold a luncheon meeting on Thursday (July 9) at the Warwick hotel, New York.





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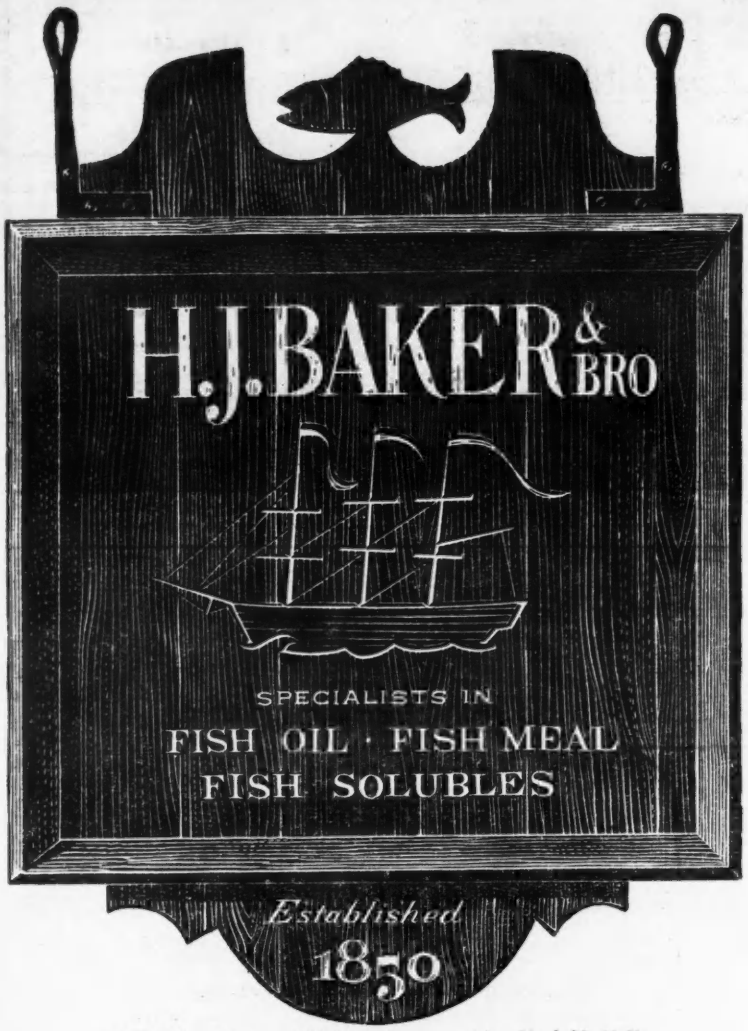

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Oils, Fats and Waxes

Trend of coconut oil prices continued downward last week, the market declining ¾ cent per pound. Buying interest was nil as consumers kept to the sidelines awaiting further developments. Copra also took a nose dive, dropping $12.50 per ton. Trading lagged for the entire list of oils and fats last week. Edible oils were unsettled. Corn and soybean oils declined fractionally, while cottonseed and peanut closed unchanged.

Quiet demand also unsettled tallow and greases. Light trading took place in tallow and greases at slightly lower levels. Lard continued lower and was off fractionally.

There was little doing in drying oils. Brazilian castor oil was shaded in some quarters. Light sales were reported at ⅛ cent lower. Tung oil was unchanged, but quotations were reported shadable on firm bids. Linseed oil was in good demand against former contracts, while new business continued slow. Oiticica oil was quiet, but limited stocks were maintained at current prices. Interest in crude menhaden continued to lag both for domestic and export needs. Fishing off the Atlantic and Gulf coasts was spotty, with the fish reported small and lean.

Oil meals were firmer. Linseed meal was raised 50 cents per ton, soybean meal, $1.50 and cottonseed meal, $3 per ton.

Price Trends

Advanced

Cottonseed meal, $3 per ton.
Linseed meal, 50c. per ton.
Soybean meal, $1.50 per ton.

Reduced

Castor oil, No. 1, Braz., ½c. per lb.
Cocoa butter, 1c. per lb.
Coconut oil, crude, ¾c. per lb.
Copra, $12.50 per ton.
Corn oil, crude, ¼c. per lb.
Refd., ¼c. per lb.
Greases, ¼c. per lb.
Lard, cash, 1/5c per lb.
Soybean oil, crude, ½c. per lb.
Refd., ½c. per lb.
Tallow, ½c. per lb.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	July 3, 1958
114.50	112.95	110.94	119.04

For Current Prices see page 9

Vegetable Oils

Castor — Business was reported quiet. No. 1 Brazilian was nominal at 17¼c. to 17⅜c. per pound, tankcars, New York, prompt delivery, as to seller. Some business was reported at the inside figure. Domestic grades moved in good volume against contracts, while new business was spotty.

Import of castor beans and castor oil at New York and Philadelphia last week were as follows:

	Pounds	
	Castor Beans	Castor Oil
Last week	1,530,450	702,500
Previous week		3,000,000
Corresponding week, 1958		822,000
Total this year	15,572,950	42,340,000
Corresponding period, 1958	8,769,700	42,065,000

Coconut—This market continued to move downward, crude oil declining ¾c. per pound. Buying interest was conspicuous by its absence. Tankcars dropped to 17½c., f.o.b. Pacific coast, July shipment and 17c., August. The New York market declined to 19¼c. per pound, tankcars, July delivery, with later positions not quoted.

Corn—Crude was unsettled, slightly lower. Sales took place at 12⅜c. per pound, tankcars, f.o.b. mills, prompt shipment. Refined was lower and available at 16.10c., tankcars, New York delivery.

Cottonseed—Futures were unsettled and lower on the New York Produce last week except July which rallied, regaining early losses as a result of buying by trade interests and short covering late in the period.

Cottonseed Oil Futures

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Thursday, July 2, follow:

	Sales	High	Low	Close
		Cents per Pound		
July	390	13.93	13.58	13.92S
Sept.	460	13.36	13.05	13.21S
Oct.	13	12.95	12.65	12.76@12.80
Dec.	314	12.84	12.48	12.59S
March	57	12.77	12.48	12.53S
May	99	12.77	12.46	12.56@12.60
July (1960)	29	12.51	12.50	12.40@12.51

Total sales and switches, 1,362 contracts.

Deferred deliveries, however, remained easy and closed fractionally lower. No tenders on July contracts were issued to date. Export business was slow. Weather conditions were favorable in the cotton and soybean belts. Refined salad oil was unchanged at 16½c. per pound, tankcars, New York, prompt delivery.

Old crop crude oil was in limited supply and closed at unchanged prices. Tankcars in the southeast and Valley were nominal at 13¼c. per pound and 13c., Lubbock and Waco. New crop crude was quoted at 12c., Valley and southeast for August shipment.

Disappearance of refined cottonseed oil in May was placed at 2,077 tankcars, compared with 2,846 in April. Visible supply was indicated at 6,865 tankcars, end of May against 5,904 a year ago.

Flaxseed—Crushers reduced bids on cash flaxseed 5c. a bushel in the first change in many weeks. Three cars traded in the spot market at $3 a bushel before the decline to $2.95, spot and to-arrive, basis Minneapolis. Six cars and 12,000 bushels in trucklots were purchased on to-arrive basis. CCC last week sold 420,000 bushels of flaxseed bringing the total up to 8,880,000 bushels since May 20. New crop outlook continued to brighten with good rains over most of the growing area. Arrivals of flaxseed for all accounts totaled 121 cars (83 for CCC) compared with 115 a year ago.

Oiticica — This market was unchanged and steady. Light trading was reported at 20½c. per pound, tankcars, New York, prompt delivery. Drums were held at 22c. to 22½c. per pound, spot, as to quantity.

Olive — Primary markets continued firm. Tunisian and Algerian replacements were higher and boosted to $68 per 100 kilos, c. and f. New York drums for prompt shipment. Trading was reported quiet with interest restricted to Spanish oil because of its lower cost. Spanish oil ranged from $57 to $59 per 100 kilos, drums, f.o.b. ports, prompt shipment, depending upon seller. The spot situation was quiet, but steady. Tunisian oil was still available at $2.40 to $2.50 per gallon, drums, duty paid and Spanish from $2.50 to $2.60, depending upon quantity.

Palm—Trading was quiet. Drums were available at the recent decline to 15½c. to 16½c. per pound, drums, as to quantity. Tankcars were unchanged at 13.05c., New York, prompt delivery.

Palm Kernel—This market was dull and featureless. Shipments were easier and nominal at 14¾c. per pound, tankcars, New York, late August-September delivery.

Peanut—Buying interest was reported light. Crude was unchanged at 13¾c. per pound, tankcars, f.o.b. mills, southeast, prompt shipment. Refined oil was quoted at 17¼c., tankcars, New York basis.

Crushing for peanut oil and meal utilized 26 million pounds of shelled peanuts during May, bringing the season total for the first 10 months to 194 million pounds. Crushing during May, 1958, amounted to 11 million pounds, while the total for the first 10 months last season was 150 million pounds.

Soybean—This market quiet and easy.

Cottonseed Crush: May

Cottonseed received and crushed and production of cottonseed products during May and April, as compiled by Bureau of Census, follows:

Cottonseed

	May	April
	Tons	
Receipts at mills	6,700	*6,300
Crushed or used	179,200	*323,500
Stocks at mills	233,100	405,500

Crude Oil

	Pounds	
Produced	65,400,000	*116,500,000
Stocks at mills	27,700,000	37,300,000

Cake and Meal

	Tons	
Produced	85,900	*151,500
Stocks at mills	170,500	166,400

Hulls

	Tons	
Produced	44,100	*76,300
Stocks at mills	83,400	104,900

* Revised.

Oils, Fats and Waxes

Crude was lower and sold at 9¼c. per pound, tankcars, Decatur, unrestricted, prompt shipment. Refined salad declined to 11½c., tankcars, New York basis.

Disappearance of crude soybean oil in May totaled 5,897 tankcars, compared with 6,414, May last year. Visible oil supply was placed at 13,803 tankcars at the end of May against 11,443 a year ago.

Soybean Crush: May

Soybeans received and crushed and production of soybean oil and meal during May and April, as compiled by Bureau of Census, follows:

Soybeans

	May	April
	—Tons—	
Receipts at mills	765,600	664,000
Crushed or used	1,091,600	1,037,500
Stocks at mills	1,520,200	1,846,300

Crude Oil

	—Pounds—	
Produced	385,500,000	365,600,000
Stocks at mills	153,500,000	110,400,000

Cake and Meal

	—Tons—	
Produced	862,300	816,300
Stocks at mills	155,900	104,500

* Revised.

Miscellaneous

Cocoa Butter—Trading was slow. Prices were lower, ranging from 69c. to 74c. per pound, spot, according to quantity.

Copra—Shipments continued unsettled and dropped to $225 per ton, c.i.f. Pacific coast, prompt shipment. Buying interest was inactive.

Fats and Greases

Greases — This market was unsettled with light trading reported at slightly lower levels. Yellow grease was moved at 6⅜c. per pound, tankcars, delivered, and ranged to 6½c. depending upon acid content. Choice white also was easy and sold at 7¼c., same basis, with sellers naming ⅛c. more.

Lard—Prices continued weak and registered fractional declines. Cash lard was quoted at 8.6c. per pound, drums, Chicago.

Tallow — This market was dull and easier. Buying interest was quiet. Offerings were quite liberal. Prices were off ⅛c. per pound. Bleachable fancy was quoted 6⅞c. to 7c. per pound, tankcars, delivered; prime, 6⅝c. to 6¾c.; special, 6½c. to 6⅝c. and No. 1, 6⅜c., same basis. Export business also was slow. Guaranteed fancy was nominal at 8⅜c. per pound, drums, f.a.s. and 7½c., bulk.

Fish Oils

Cod — Market was unchanged and steady. Demand was moderate, with sales reported on the basis of 7½c. per pound, drums, exdock, and 7¼c. bulk, ex ships' tanks, New York. Stocks on spot were nominal at 8¾c. to 9c., as to quantity.

Menhaden—Trading was spotty and restricted for domestic needs, while export interest was inactive due to lower European market. Crude menhaden oil was nominal at 7¼c. per pound, tankcars, f.o.b. works. Fishing on the Atlantic and Gulf coasts was reported light due to inclement weather, with the fish lean. Refined grades were a fair request for nearby de-

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Oils, Fats and Waxes

livery. Light pressed was held at 9½c., tankcars, New York basis.

Cake and Meal

Cottonseed Meal—Scarcity of old crop meal has stiffened this market and prices were raised sharply. Meal, 41 percent was lifted to $64 per ton, sacked, Memphis; $66 Alabama, Georgia and South Carolina points. New crop will not be available until late August.

Linseed Meal — Moderate bookings of linseed meal were accomplished for delivery last half July at unchanged prices while immediate delivery traded $3 to $4 a ton higher. Demand was not aggressive but this was offset by scarcity of offerings, offal from toll crushing program providing limited volume. At the close of the week extracted meal, 34 percent protein, dropped to $60.50 a ton, bulk, in carlots, f.o.b., Minneapolis, for prompt delivery. Old process, 32 percent was not offered.

Soybean Meal—Additional gains were scored in this market, sparked by improved demand from formula feed manufacturers and limited production. Eastern trunk line again displayed greatest strength. prices advancing $5.50. Central states prices were $2 to $2.50 higher while unrestricted billing advanced $1.50 Meal, 44 percent, was priced at $60 to $60.50 a ton, unrestricted, bulk, Decatur, for prompt shipment.

Waxes, Vegetable

Consuming demand for vegetable waxes was light and confined to immediate needs. Despite limited trading the market, as a whole remained on a steady basis. Carnauba grades were maintained at unchanged quotations, especially good quality yellow which was said to be in low supply. No. 1 Ceara yellow was maintained at $1.10 to $1.12 per pound, spot as to quantity, while Parnahyba ranged from $1.12 to $1.16 per pound, same basis, as to quantity and seller. Carnauba shipments from Brazil continued strong and were held at government price support levels. Fatty grades were without change, but commanded less interest on spot than Parnahyba. Interest in refined beeswax was restricted to actual needs.

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Abbe 2200# Spiral Mixer.
Day 20 gal. Monel Jack. Sigma Blade Mixer.
B. P. Stainless Jack. Mixer 1 gal. Sigma Blades.
Fletcher 30" type 316 S S. Sus. Style Extractor.
Horiz. Jack. Sterilizer 36" x 48" x 96".
Stokes Lab. Vac. Shelf Dryer 18" x 12".
Devine 6 Shelf Vac. Shelf Dryer 40" x 41".
Pfaudler G. L. Reactors 500 & 750 gals.

Send for Bulletin A-43 for complete listings. We buy individual items or complete plants.

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THE MACHINERY & EQUIPMENT CORP.
Newark 12, N. J. TAlbot 4-2050

Lederle Won't Shy

—*Continued from page 3*

great strides made in the development of live-virus vaccine, warned that much remained to be done in the development of commercial production methods before licensing can become a reality.

A spokesman for Lederle, at the time the firm announced its production plans, said the company agreed with the surgeon general.

Lederle, in its announcement, stressed just how much research has gone into making the live virus vaccine safe for commercial production.

Some $8 million has been spent developing the vaccine since research began in 1946, the firm pointed out. During the past two years, Lederle has produced thirty separate batches of the new vaccine—tradenamed "Orimune"—enough to immunize approximately 2,600,000 people against all three types of poliomyelitis.

Batches Met Exacting Standards

The batches have met critically exacting standards, it was added, indicating that the standardization problems which are basic in the manufacture of biologicals have been met by Lederle's new vaccine.

A spokesman for the firm said that the "first nationwide immunization program ever undertaken with oral polio vaccine is now under way in Costa Rica."

The firm appears to be leaning heavily on the result of the mass immunization to clinch the case they feel is already proven. Said the spokesman, "if it is as successful as preliminary results indicate, the study should provide the strongest kind of confirming evidence of the safety and efficacy of our product."

Geo. Degen Offices Moved

George Degen & Co., New York, has moved to larger quarters at 21 West street. The firm's associate company, Degen Oil & Chemical Company, will remain at its old address, P. O. Box 5 C, Kellogg street, Jersey City, N. J. The new telephone number for George Degen, previously headquartered at 111 Broadway, is Digby 4-4940.

SPECIALS

Pebble Mills: Patterson D 3 x 4' porc.
Disintegraters: Rietz RD18-P, steel, 75 hp.
Reactor: 50 gal. Pfaudler gl. lined, ag.
Percolators: Pfaudler, stainless, 54 x 42"
Mills: Fitzpatrick model D, st., jktd.
Crystallizers: 500 gal. stain. jack., agit.
Dryer: Porter 2 x 4' vac. drum, st. st.
Centrifugal: Tolhurst 26" rubber, 2-speed.
Mix-Mullers: Simpson Lab., Porto, #00.
Dewaterers: Davenport model 3A, 3 hp.
3-roll Mills: Day type B 14 x 30" hi-speed.

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ECH SPECIALS

Buflovak 36" SS one effect Evap., 100 sq. ft.
Gruendler "BB" Whirlbeater Hammer Mill.
Pfaudler 1,500 gal. Glass Tank; closed top.
Nash Hytor Vac. Pump #6, 40 HP motor.
Stokes Vac. 14 Shelf Dryer, 44"x40", w/aux.
BP Jktd. Mixer 100 gal. working cored arms.
Gen. American 42" x 120" Twin Drum Dryer.
Patterson ¾ gal. SS Jktd. Lab Mixer, 2 HP.
2—Mikro's—Bantam & 1SL with 5 HP motor.
RIBBON BLENDERS, all sizes, new & used.

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FIRST CLASS EQUIPMENT from Your FIRST Source!

EXTRAORDINARY SPECIAL PURCHASE

Type 316 Stainless Steel REACTORS 1000 gal., 2000 gal. and 3500 gal., Jacketed, Agitated and Specially PRICED FAR BELOW new replacement cost.

REACTORS

2 Stainless 1000 gal. Vert. Jktd. Vacuum Reactors, Pancake coils.
Pfaudler 300 gal. Series E Glass Lined Reactors.
Pfaudler Glass Lined Reactors up to 1000 gal. capacity; some jktd.
Rotating Jacketed Aluminum Vacuum Fermentor; 3'x8'.
1500 gal. Steel Jacketed and Agitated Heavy Duty Pressure Vessel.
A. O. Smith Stainless Lined 11,000 gal. Pressure Tanks; 10'x18'7".
ASME Aluminum Reactor 5050 gal. Manhole Type; 8'x12'; dished heads.
Lancaster Stainless Lined Rotary Reactor, 50"x17'4"; 350 PSI.

TREMENDOUS SELECTION OF MIXERS

Baker Perkins Heavy Duty Double Arm Mixers from Laboratory Size to 300 gal. jacketed, S.S Vac. Mixers; 150 & 300 gal.
NEW Falcon Double Ribbon Blenders in Stainless or Mild Steel.
Stainless Conical Blender; 22 cu. ft., motorized.
Blaw Knox Conical Blender; 300 cu. ft., 9'6" dia.
Readco Jktd. Blender in Stainless; 18"x48"; motorized.
Muller Type Batch Mixers from Simpson Lab. 11"x24" to Lancaster and Simpson 6' diameter Mixers.

CONDENSERS AND HEAT EXCHANGERS

Whitlock Stainless Steel 17" x 10'; 250 sq. ft.
Monel Vert. Condenser with 192 Monel 1" Tubes; 2' x 8' 350 sq. ft.
Stainless Steel Condenser 350 sq. ft. 26" x 112"; 4 Pass.
Floating Head Shell & Tube Heat Exchanger; 16' long; 190 (¾" Tubes).
Acme Stainless Condenser; 24" x 16'; 1000 sq. ft.

FILTERS AND FILTER PRESSES

Sparkler Filters in Models No. 14, 18 and 33 . . . some Stainless.
Dorrco Rotary Vacuum Filter 6" x 3" with nickel contacts.
Feinc Stainless Rotary Vac. Filter 5' x 6' with accessories.
Oliver Pre-Coat Rubber Lined Rotary Filter 8' x 8'; 200 sq. ft.
Tremendous Stock of Plate and Frame Presses in Iron, Stainless Aluminum, Wood, Lead and Rubber Coated up to 42" x 42".

MILLS GRINDERS PULVERIZERS

Mikro Pulverizers from Bantam size to No. 4's; all types.
Mikro Stainless Atomizers Models No. 5 and No. 6.
Fitzpatrick Stainless Mills Models, D, K and C; motorized.
Raymond Imp Mills; Models No. 0000, 40, 47, 51, and others.
Williams Heavy Duty Hammer Mills, No. 4; up to 150 HP.
Williams Lab Ring Roll Mill Ring 3" x 10"; Collector.

SIFTERS — SCREENS

Selectro Single and Double Deck Stainless Sifters in several sizes.
Orville Simpson Rotex Sifters; 30"x60" to 40"x120".
Robinson Unique Gyro Sifters; 20" x 72" to 40" x 96".
Tyler-Hummer Vibratory Screens 4' x 5' and 4' 10' others.

STERILIZERS — AUTOCLAVES

Lab size American Sterilizers 16" x 24"; electric or gas heated.
American and Ft. Wayne Jktd. Sterilizers to 30" x 48" x 84".
Horizontal Steel Autoclave, 66" x 14' 7"; with tracks.

EVAPORATORS

Pfaudler 6' diameter Stainless Steel Evaporating Dishes; Jktd. Agtd.
Pfaudler 6' Glass Lined Evaporaters and (1) 47" diameter with Agit.
Zaremba Dbl. Effect INCONEL Evaporator offering, 430 sq. ft. surface.
Swenson Quadruple Effect Long Tube Film Type Evaporator.
Sargent & Wilbur Ammonia Disassociator, 10,000 cu. ft. per hour.
Mojonnier Stainless Vacuum Pans, 3'x10' and 6'x12'.
Harris Stainless Steel Vac. Pan, complete with coils; 6' diameter.

DRYERS

Proctor & Schwartz Apron Dryers: 8' wide S.S. Apron, 5 Sections; 34½' overall; complete accessories.
Buflovak Double Drum Lab. Dryer with Stainless Rolls 6"x8" in vacuum.
Stokes Rotary Jktd. Dryers: 18"x8' and 34"x10' ASME Jkt.
Rotary Jacketed Steel Dryer, 18"x8'. Louisville Rotary Kiln, 41"x15'.
Louisville Stainless Steel Rotary Dryer; 30"x28' completely equipped.
Squier Rotary Atmospheric Dryer with Stainless Hexagon Shell, 30"x20'.
Hersey Rotary Gas Fired Dryer 5'x26' counter current type.
Stainless Lined Rotary Dryer; 50"x20' with Combustion Chamber.
Bagley Sewell Double Drum Dryer 28"x60" with all accessories.
Buflovak Double Drum Dryer 40"x120" Carrier Silica-Gel Dehumidifier.
Ft. Wayne Sterilizer 61"x124" with agitator and 5 HP motor.
Bowen 4' dia. S.S. Spray Dryer installation.

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PARTIAL LIST

5—B & W 70,000# per hour Boilers, 500 psi.
1—I. R. Two Stage Compressor, type HHE2, 600 HP motor, 3170 cfm, 125 psi.
125—Heat Exchangers up to 4600 sq. ft.
100—Pressure Vessels, up to 12' x 110'.
200—Centrifugal Pumps with XP motors, up to 9000 gpm.
30—Towers, 2' to 10' dia.
75—Storage Tanks, 1000 to 80,000 barrels.
7—Hortonspheres, 5000 to 10,000 barrels.
Pipe; Valves; Fittings.

CIRCULAR BEING PREPARED — REPRESENTATIVE ON PREMISES

SPECIALS

13—Rotary Dryers: 8' x 87', 7' x 80', 7' x 55', 6' x 60', 6' x 50', 5'6" x 50', 5' x 30', 4' x 40', 4' x 30', 4' x 20', 34" x 30'.
8—Vulcan 8' x 125' Rotary Kilns.
3—Louisville 8' x 50' S.S. Rotary Dryers.
1—Louisville 4'6" x 40' Aluminum Rotary Steam Tube Dryer.
2—Link Belt 6'4" x 24' S.S. Roto Louvre Dryers.
1—Wyssmont 304 S.S. Turbo Dryer, 6'2" x 10'4" high, 24 shelves.
1—Baker Perkins 5'6" x 6' Rotary Vacuum Dryer or Mixer.
5—Baker Perkins 15 JIM2 100 gal. Mixers, 20 HP XP motors.
5—Raymond 2 Roll Bowl Mills.
1—Penn. Non-Clog Swing Hammermill 5060, Unused.
5—Raymond and Gayco Double Whizzer Air Separators: 18', 14', 8', 30".
2—Buflovak Monel & S.S. Evaporaters: 550, 250 sq. ft.
6—Struthers Wells 316 S.S. jacketed, agitated Reactors: 1000, 2000 gals.
1—Pfaudler 1000 gal. Model R Glass Lined Agitated Reactor.
1—Bird 36" x 50", 347 SS Solid Bowl Cont. Centrifuge.
1—Sharples C20 Super-D-Hydrator 316 S.S.
3—Swenson Walker Crystallizers 30' long.
1—Dialyzers 304 S.S., 120 leaves.
1—Buflovak 42" x 120" Double Drum Dryers.
3—Tyler Hummer 4' x 10' type 38 Vibrating Screens.
1—Oliver 100 sq. ft. Vertical Pressure Filter, 304 S.S.
2—5000 gal. Steel jacketed, agitated Kettles.

REACTORS — EVAPS — CONDS — TANKS

1—500 gal. Walters 304 S.S. jktd. agtd. Reactor.
1—1400 gal. Blaw-Knox steel jktd. agtd. Reactor.
1—7500 gal. 316 S.S. Vert. Storage Tank 7' x 25', 50 psi.
1—20,000 gal. 347 S.S. Vert. Storage Tank, 12' x 23'.
1—750 gal. nickel clad Mixing Tank, 125# internal with nickel coils.
3—Pfaudler 1200 gal. glass lined Tanks, 50 PSI.
1—4000 gal. Haveg Vertical Tank 8' x 12'.
1—12,000 gal. horiz. steel Tank 7'6" x 36', 200 psi.
8—Stainless Heat Exchangers: 1220, 942, 536, 396, 315, 250, 157 sq. ft.
1—24" dia. x 35', 304 S.S. Bubble Cap Column.
1—30" dia. x 20', 304 S.S. Bubble Cap Column.

CENTRIFUGES

1—Bird 18" x 28", 316 S.S. Solid Bowl, Cont.
1—Bird 18" x 28", steel, Solid Bowl, NEW.
1—Bird 36" x 50" 347 S.S. Solid Bowl Continuous Centrifuge.
2—Sharples PY14, PN14, Super-D-Canters, 316 S.S.
1—Sharples H2 Nozzlejector, 15 HP, 304 S.S.
1—Bird 40" suspended, 347 S.S., perf. basket.
1—Tolhurst 30", 304 S.S. underdriven, perf. basket.
2—Sharples #16, 304 S.S., 3 HP motor.

FILTERS

1—Oliver 5'3" x 8' Steel Rot. Vac. vapor-tite housing.
1—Sparkler 33S28 Filter 150 sq. ft., 304 S.S.
1—Niagara 36H110 horiz. Filter 110 sq. ft. 304 S.S.
1—Sparkler 33-S-17 steel Filter 92 sq. ft.
1—#12 Sweetland, 48 leaves, 3" centers, 640 sq. ft.
2—#10 Sweetland, 27 leaves, 4" centers, 250 sq. ft.

DRYERS

3—Buflovak Vac. shelf, 20—60" x 80" shelves.
1—Devine Vac. Shelf, 19—59" x 78" shelves.
1—Devine Vac. Shelf, 10—40" x 43" shelves.
2—Overton 42" x 120" Atmospheric Double Drum.
2—Devine 5' x 12', 4' x 9' Atmospheric Single Drum.
1—Buflovak 3' x 20' Rotary Vacuum, 316 S.S. Unused.
2—Louisville Rotary Steam Tube, 6' x 25', 6' x 50'.
1—Rotary Kiln, 9' x 130'.
1—Traylor 30" x 18' S.S. Rotary Dryer.

MIXERS

1—Baker Perkins #15JUUM, 100 gal. jktd. dispersion mixer, 100 HP.
1—Baker Perkins #16TRM 150 gal. jktd. sigma blades, Vacuum, 50 HP.
5—Day "Cincinnatus" double arm, 250 & 100 gal.
3—1500# Powder Mixers, 7-1/2 HP XP motors.
3—Steel jktd. Powder Mixers; 225, 350 cu ft.

Partial List of Values — Send for News Flash!

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$3,000,000 LIQUIDATION

TYPE 316 STAINLESS STEEL EQUIPMENT

CHEMICAL PLANT — ORANGE, TEXAS

FILTERS — CRYSTALLIZERS — CENTRIFUGALS

2—Sharples C-20 Super-D-Hydrators, T316 SS, 20 HP.
3—18,000 gal. aluminum cone bottom tanks, 12' dia. x 31' OAH.
4—1200 gal. crystallizers, T316 SS, 5' dia. x 7' high, cone bottom, dished top.
7—560 gal. crystallizers, T316 SS, 3'6" dia. x 7' high, cone bottom, dished top.
3—Worthington 160 ton steam-jet refrigeration units.

TYPE 316 STAINLESS STEEL TANKS

1—17,650 gal., 9' dia. x 36' long, T316 SS, ¼" shell, ⅜" dished heads, w/coil.
2—7,500 gal., 10' dia. x 13' high, T316 SS, ¼" shell.
2—6500 gal., 11' dia. x 7' high, T316 SS, 7/16" shell, ½" dished heads, VACUUM.
12—2,300 gal., 7' dia. x 8' high, T316 SS, ¼" shell, coils (some with agitators).
2—2,200 gal., 6'6" O.D. x 8' high ¼" shell, vertical.
5—1100 gal. 5'6" dia. x 6' high, T316 SS, with paddle agitators, 2 HP.
4—1,200 gal., 5' dia. x 7' high, dished top, 42" deep conical bottom crystallizer.
7—560 gal., 3'6" dia. x 7' high, ¼", dished top, 4' deep conical bottom crystallizer.
55—Tanks and Pots from 10 gal. to 350 gal. sizes, vertical and horizontal.

CONDENSERS — HEAT EXCHANGERS — CALANDRIAS — COOLERS

1—1,450 sq. ft. condenser, stainless steel tubes, tube sheets, heads, and baffles, steel.
1—1,200 sq. ft. condenser, stainless steel tube, steel shell.
14—Condensers, 750 & 800 sq. ft. stainless steel, vertical, T316 SS tubes and heads.
9—Condensers, 356, 400, 410, 550 sq. ft., T316 SS.
6—Calandrias, 140, 145, 150, 157, 262, 277 sq. ft., T316 SS.
11—Exchangers, 64, 70, 75, 80, 100 sq. ft., T316 SS.
12—Exchangers, 20, 30, 47, 50, 52, 54 sq. ft., T316 SS.
15—Exchangers, Cupro-nickel tubes, 50 to 1070 sq. ft.

SEND FOR CIRCULAR

COLUMNS — STAINLESS STEEL

1—108" dia. Vulcan scrubber, T316 SS, 10 traps on 12" centers, 252 caps.
1—96" dia. Vulcan scrubber, 10 T316 SS trays 12" centers, 276 caps.
2—96" dia. Vulcan columns, 30 trays, T316 SS, 272 caps per tray.
2—60" dia. x 13' high, Vulcan scrubbers, 10 trays, 100 caps tray, 12" centers.
1—48" dia. column, 30 trays, 66' high, T304 ELC SS.
3—30" dia. packed columns, 25' high, T316 SS.
4—24" dia. Vulcan bubble cap columns, 12 trays, T316 SS, 18" spacing, vacuum.
2—20" dia. stainless steel columns, 30' & 25' high, T316 SS.

COLUMNS — COPPER

1—72" dia. Vulcan bubble cap copper column, 46'10" high, 40 trays, Vacuum.
2—48" dia. bubble cap copper columns, 31' & 45' high, Vacuum.
2—42" dia. Vulcan stills, 66" high (evaporator bodys).
1—24" dia. column, 25'8½" long, 20—trays, vacuum.

TYPE 316 STAINLESS STEEL KETTLES

3—3,500 gal. kettles, Struthers-Wells, 7' dia. x 12' high, T316 SS, 11/32" shell, dished heads, 11 turns, SS coil, 10# jacket, two-speed agitator, 40/20 HP - 1750/500.
1—2850 gal., 6' dia. x 12' high, T316 SS, horiz. still kettle.

MISCELLANEOUS EQUIPMENT

50—T316 SS Pumps, 1" to 6", 1 HP to 20 HP.
2000—Valves, T316 SS up to 10".
10000'—T316 SS tubing; 1", 2", 3" etc., up to 12".
1—Otis Elec. Elevator, automatic, 5000#, 75 FPM.
4—Blowers, T316 SS, up to 5600 cfm, 30 HP.
2—St. St. bucket elevators, 62' and 45' high.
3—Fuller 16" T316 SS rotary feeders.
4—Stainless steel screw conveyors and chutes.
1—2,000 gal. aluminum tank, 6' dia. x 10' high, coils.
1—1,000 gal. copper tank, 7'6" dia. x 3' high, ⅛".
25—Stainless steel steam jet evactors and ejectors.
18—Separators, T316 SS, 22" x 8' overall depth, cone type.
1—Croll-Reynolds #21 jet vacuum air pump, capacity 50# per hour.
1—Pneumatic Conveyor System, approx. 1150 ft. 10" dia. aluminum pipe.
Also Pipes, Steel Pumps, Steel Tanks, Agitators, etc.

IN STOCK

DOUBLE ARM MIXERS

71—Baker-Perkins size #17, 200 gal. working capacity, jacketed, sigma or duplex blades, mechanical, hydraulic, or counterweight tilt mechanisms.
1—Baker-Perkins #15, 100 gal., T304 SS, disp. blades, jktd., 75 HP, vac. cover.
1—J. H. Day 100 gal. sigma-blade, T316 SS, 10 HP.
3—Baker-Perkins sigma-blade, steel: 100, 50 gal.

ROTARY DRYERS — KILNS

1—7'6" dia. x 100' long kiln, ½" shell, firing hood, 30 HP M-R.
1—7'6" x 65' rotary kiln, ½" shell, welded.
1—11' dia. x 155' long Traylor kiln, ¾" welded shell.
4—8'8" x 70' dryers, Hardinge class #XA-18, ½" dbl. shell.
1—7' x 50' dryer, Allis-Chalmers, ½" shell, indirect-direct, 50 HP.
1—6' x 50' Louisville steam-tube dryer, 15 HP M-R.
6—Dryers: 5'6" x 50', 4'9" x 30', 4'6" x 40', 4'6" x 32', 4' x 24', steel.
2—Stainless steel dryers: 4' x 12'6", 3' x 10'6".
1—3' x 15' rotary dryer, Everdur metal construction.
1—Link-Belt Mono-tube dryer, 2' x 10', model #24-10.
2—4' dia. Spray Dryers, Western Precip., T304 SS, pilot size, elec. heating.

FILTERS — CENTRIFUGALS

2—OLIVER 5'3" dia. x 3' f., rot. vac. filters, pressure precoat, T316SS, ASME.
1—OLIVER 5'3" dia. x 8' f. rotary vacuum filter, UNUSED, precoat.
1—Niagara #510-28 vert. pressure leaf filter, T316 SS, 500 sq. ft.
1—Niagara #36H-110 horiz. leaf filter, T304 SS, 100 sq. ft.
1—Sparkler #33-S-28 filter, T304 SS, 150 sq. ft.
8—Sharples #16 Super Centrifugals, T304 SS. (sep. & clarif.).
2—Sharples #18-V Super, vapor-tite, tinned-steel, 3 HP.
5—Bird horiz. contin. Centrifugals: 40" x 60", 32" x 50", 18" x 28" S.S.
3—Bird type CH, 24" x 24", Monel slotted screen, continuous.

MILLS

1—Hardinge 4'6"x16" conical ball mill, 25 HP.
1—Kennedy-Van Saun 4'x8' rod mill, 50 HP.
5—Allis-Chalmers 5'x22' ball-tube mills, 150 HP.
1—Raymond #5057 Hi-side roller mill, 5-rolls.
1—Raymond #15 6-roll, 66" dia. mill, 200 HP.
1—Babcock & Wilcox pulverizer, type E-32, 75 HP.
10—Batch Pebble mills: 8'x10', 6'x8', 5'x6', 6'x5', etc.
1—Penna. non-clog hammermill, 400 HP, 1952—UNUSED.
2—Mikro's #2DH, stirrup hammers.
4—Jaw crushers: 36"x15", 20"x6", 18"x9", 8"x6".
3—Ink or paint mill (3-roll): 9"x24", 6"x14".

JUST PURCHASED

6—A.T.&M. 40" solid basket susp. centrifugals, T304 SS, 40 HP M-R (1 unit has fume-proof cover).

1—J. H. Day 100 gal. sigma blade mixer, T304 SS, 10 HP.

1—Buflovak 3' x 20' rotary vacuum dryer, T316 SS, Jktd., 1957—UNUSED.

1—Stokes 5' x 8' rotating vacuum dryer-blender, T304 SS, Jacketed, 100 cu. ft., 1953 Model 100-D.

RAYMOND #5057 5-roller Hi-Side Mill.

42—BAKER PERKINS #17, 200 gal. sigma blade jacketed mixers.

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EQUIPMENT
for CHEMICAL AND ALLIED INDUSTRIES

9—Alco type 316 SS jacketed reactors, 3000 gal., complete with agitators and drives.

1—Steel & Alloy Tank Co., type 347 SS, 200 gal. jacketed autoclave, 250# internal and jacket pressures.

1—Steel & Alloy Tank Co., 125 gal. type 347 SS, jacketed autoclave, 250# internal and jacket pressures.

4—Steel & Alloy Tank Co. 100 gal. type 347 SS pressure tanks, 250# pressure.

1—Steel & Alloy Tank Co. 300 gal., type 347 SS, pressure tanks, 250# pressure.

1—Blaw-Knox 400 gal. steel jacketed autoclave, 570# internal pressure, 85# jacket.

1—Columbia Engineering high pressure storage tank, 2400 gal., 265# working pressure.

2—Pfaudler type 316 SS, 750 gal. jacketed kettles with condensers, columns and receivers.

2—Pfaudler type 316 SS 750 gal. jacketed vacuum reactors.

2—Struthers Wells type 316 SS jacketed reactors, 3500 gal., complete with coils, agitators and drives.

1—Louisville rotary steam tube dryer, 38" x 20'.

1—Swenson SS 10' dia. spray dryer, complete.

5—Link Belt steel roto louver dryers, Model 207-10, 310-16, 310-20, 604-20, 1003-30.

1—Buflovak double drum dryer, 42" x 120'.

1—Stokes double drum dryer, 5' x 12'.

1—Niagara SS filter, Model 510-28.

1—Feinc SS rotary vacuum string filter, 3' x 3' (NEW).

12—Sweetland #12 filters with 72 SS leaves.

3—Dorco 6' x 2' rubber covered filters.

5—Baker Perkins double arm sigma blade mixers, 100 gal.

1—Patterson monel double cone blender, 4 cu. ft.

2—Sturtevant #7 dustless type 304 SS batch blenders, (NEW).

1—Munson rotary blender, 40 cu. ft.

6—Struthers Wells heat exchangers, 885 sq. ft.

1—Struthers Wells type 316 SS heat exchanger, 330 sq. ft.

10—Davis Engineering type 316 SS heat exchangers, 85 sq. ft. to 170 sq. ft. (NEW).

1—Vulcan SS bubble cap column, 4' x 28 plates.

1—Badger monel bubble cap column, 4' dia. with 17 plates.

1—Struthers Wells SS calandria type evaporator, 365 sq. ft.

1—Swenson type 316 SS vacuum crystallizer, 2' x 12'.

1—Swenson single effect evaporator, SS, 320 sq. ft.

1—Mikro Model 4TH pulverizer.

1—Ames 300 HP steam generator, 150#.

1—Cleaver Brooks 500 HP package steam generator, 200#.

1—Swenson type 316 SS vacuum crystallizer, 3'6" x 12'.

R. GELB & SONS, INC.
UNION, NEW JERSEY Est. 1886 MUrdock 6-4900

AIR COMPRESSOR — 8 CFM 1½ HP, 12 CFM 5 HP, 80 CFM 20 HP w/ receivers.

AUTOCLAVES — 35 gal. S/S jacketed/agitated, 100 gal. steel, J/A, 150 gal. J/A.

PRESSURE BLOWERS — Spencer 70 CFM 40 oz., 85 CFM 20 oz., 270 CFM 24 oz., 150 CFM 48 oz., 635 CFM 16 oz., 1300 CFM 16 oz., 550 CFM 24 oz.

FILTERS—Hilliard G1 (oil)—Eimco 48"x12", 48"x36"—6'x4', 6'x6'—Oliver 8'x12'.

TEMPERATURE RECORDER — Micromax, Model S—Leeds & Northrup—40 panels.

BRIQUETTER — Komarek Greaves, 6000# hr., 1½"x1-3/16"x⅞" die, 40 HP, variable speed drive.

LAWLER COMPANY
LAWLER PLACE METUCHEN, N. J.
LIBERTY 9-0245

BEST BUY

SHARPLES SUPER-D-HYDRATOR IN OUR STOCK
C-27 type 316 S.S. construction, vapor-tite. Explosion proof fitted. Timers, Solenoid Valves, Diversion Valve, Explosion proof motor.
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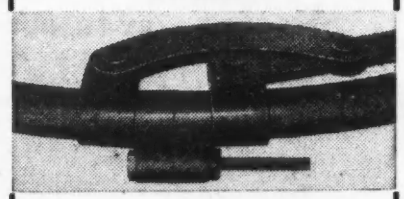

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77 VARICK STREET NEW YORK 13, N.Y. WO 6-4533

Trade Name Chemicals

—Continued from page 50

Laundering or rinsing, however, will remove it since it is water soluble.

With regard to application, Crown says that **"Fyran BP"** is simply applied to the fabric by preparaing a solution of the proper concentration, padding the goods and drying. Normal concentrations are in the neighborhood of 12 to 18 percent. The required amount of **"Fyran BP"** is dissolved by stirring into water at 140°F. No additional heat treatment is necessary, Crown states.

Flamort Chemical Company has a long line of fire retardants on the market. One of this line is **"Flamort T"** which is used for flameproofing all textile (excepting acetate rayon) including velour, velvet, sateen, damask, viscose rayon, drapes, upholstery, and rugs. One of advantage of "Flamort T" is said to be the fact it does not affect color or strength of material. Furthermore, there is no efflorescence nor odor.

Flamort's **"Flamort TC"** is another textile flameproofing agent. It used on such fabrics as duck, drill, burlap, monk's cloth, mattress covers, and work clothing. **"Flamort TC"** is described as being harmless to the skin, odorless, and will not impair tensile strength.

Flamort has fire retardants to protect paint and wood of all types. **"Flamort WC"** can be used on unfinished lumber, plywood, prefabricated construction, fiber board, insulation board, and paper products. According to Flamort, **"Flamort WC"** is a colorless surface impregnation which does not change the color of treated wood. Water soluble wood stains may be added to the solution.

The price of ready-for-use **"Flamort T"** is $2.50 per pound, 55-gallon drums, f.o.b. San Francisco plant. The listing for **"Flamort TC,"** read-for-use, is $1.50 per pound, and for **"Flamort WC,"** $1 per pound, one ton and up.

Sizing Agents

Chemically treated or modified starches of various types are becoming increasingly popular for use as sizing agents in the textile industry. They are applied for the purpose of binding together loose filaments or fibers, giving strength to warped threads and preventing breakage under variations of tension during weaving in low or high speed looms.

Modern sizing technics take natural materials such as starches and upgrade them chemically so as to obtain better performance and combine more functions in one process. Chemical upgrading of starch sizers results in more control over enzyme activity and selective digestion. Chemicals may be added to the starch in a size tank to alter hardness of stiffness of the warp threads. The starch is removable from the fabric after weaving by continuous or batch treatment with animal or plant enzymes which convert the starch to sugar in the desizing machine, jig, or patter.

A fairly recent addition to the starch sizes marketed by National Starch & Chemical Corporation are **"Kofilms,"** categorized as acetylated starch derivatives used for surface sizing and coating applications. According to National, **"Kofilms"** form films of superior toughness and flexibility and improve the surface properties of paper and board.

Properties inherent to **"Kofilms"** are: oil and grease resistance and excellent wax hold-out. Also, the acetylated starches are said to exert strong binding for fillers and pigments, particularly for offset and other printing papers where high pick strength is needed to overcome the heavy tack of some inks.

National also states that changes in time and temperature do not critically influence the viscosity range of **"Kofilms."** These products have high stability and clear operating characteristics which permit greater standardization in methods of application, more control in reproducing formulations, and an overall improvement in quality control.

Morningstar-Paisley, Inc., has on the market a family of treated potato starches which are said to offer great viscosity stability. Known as the **"Arogums,"** they are described as bringing quicker cooking, excellent luster, greater retention, more flexible coatings and improved penetration to paper and textile industries and to other manufacturers concerned with sizing, coating and finishing.

The **"Arogums"** potato starch derivatives are made by Morningstar-Paisley's oxidation processes. According to the company, advantages of **"Arogums"** include large granule size, less set-back, and narrow limits of viscosity variation. Also, in relation to starches converted by enzyme action or acid treatment to reduce viscosity and ropiness, the **"Arogums"** are said to have the valuable property of less loss through conversion to sugar.

Morningstar-Paisley states that some five grades of **"Arogums"** are available. Some are available with increased resistance to acids; with various types of body, from low viscosities to consistencies greater than attainable from untreated potato starch and varying from short to long.

Aliphatic Organics

—Continued from page 43

of '58, this same material was quoted at 4.20c. per pound.

Failure to return prices to the higher levels in effect during the early part of '58 was variously interpreted by trade members. Some people felt that the price increase, coinciding with the advent of the summer business lowdown, was deliberately kept cautiously low. Reasoning thus, they considered it likely that a further advance will be announced for next October.

Though arriving at the same conclusion, others figured the situation a bit differently. To this group, the original announcement of a July 1 price increase was tantamount to a "feeler" and intended primarily to get the ball rolling on prices. Several reports intimated, for instance, that one or more producers were keen to advance prices April 1, but indications that competitors were not about to take any action at that time, prevented the movement from getting underway.

Reports from the trade last week found demand very active, supplies for the most part adequate. In a few instances, however, delivery schedules were not being met.

In addition to other end-uses, resins requirements from manufacturers of particle board were contributing to the overall favorable formaldehyde position. And particle board, which is made from waste wood, will likely continue to be an expanding market.

According to a recent report, particle board goes into furniture, into underlay for plastic laminates, and as a base for resilient flooring such as linoleum and vinyl. In all of these applications, usage appears to be virtually unlimited, particularly with the rising costs of both lumber and plywood.

Pentaerythritol—Leading producers report excellent demand and firm prices at the higher levels posted April 1. Competitive pressures are still in evidence but these, it appears, have been greatly minimized by the steady pick-up in requirements throughout the second quarter.

Outlook is for a slackening in demand toward mid-July, followed by the usual seasonal boom at summer's end.

Higher than east coast prices by 1 cent, west coast schedules—at least, of the major PE producers — remain intact. Changes are not expected.

Vinyl Acetate Monomer—Effective July 1, a producer increased the price of vinyl acetate monomer in the eastern zone in less than carload quantities by ½ cent, to 21½c. per pound. Some time back, one or more producers revised the schedule similarly.

Food Additives Producers Warned

—Continued from page 3

the deadline of March 1960, as provided in the law.

"Mr. Larrick reports that in the ten months since enactment of the law many manufacturers have been busy developing their experimental safety data and preparing their petitions for the Food and Drug Administration.

"I feel I should point out and emphasize, however, that the clock is running. It would be unfortunate for both consumers and manufacturers if the March 1960 deadline compelled us even temporarily to ban useful additives which could have been cleared as safe if the requests had been submitted promptly. This could happen if requests submitted near the deadline exceeded our capacity to handle them.

"The law does authorize further extension of time, not to exceed twelve months, where no undue risk to the public health will be involved and where existing conditions so require. The authority to grant an extension of time is vested in the Secretary of Health, Education and Welfare.

"I shall consider requests for extensions strictly in the light of the consumer-protective purposes of the law. The law was proposed by this administration and enacted by congress for the simple purpose of achieving greater consumer protection. It places the burden of determining the safety of additives where it belongs—on the manufacturers of additives or the processors of foods who use them.

"The Food and Drug Administration has set up the scientific and administrative machinery for carrying out its part of the law. We hope that manufacturers will avail themselves of it to prevent any unnecessary backlog as the March 5 date approaches.

In a background statement issued by FDA, the agency says that thirteen of the twenty-six additive petitions received did not contain enough information to permit a decision and were therefore not formally filed.

The other thirteen requests have been filed. One was subsequently voluntarily withdrawn by the manufacturer. Two have been acted upon, both covering the same additive for use as a preservative of vitamins in animal feed.

Tolerances for the materials were specified for the feed and for small residues which might remain in poultry, meat and eggs as a result.

The additives and uses for which petitions have been filed and their current status are listed below:

List of Additive Petitions

Petitioner	Name of Additive	Purpose	Status
Dow Chemical Company, Midland, Mich.	Mineral oil	May be present in frozen meats as a migrant from packaging materials	Pending
Atlas Powder Company, Wilmington, Del.	Polyoxyethylene sorbitan monooleate	An emulsifier for certain frozen desserts, to improve texture.	Pending
Atlas Powder Company, Wilmington, Del.	Polyoxyethylene sorbitan tristearate	An emulsifier for certain frozen desserts, to improve texture	Pending
Procter & Gamble Company, Cincinnati, Ohio	Glyceryl lactostearate	An emulsifier for use in or with shortening	Pending
US Rubber Company, New York	6 - hydroxy-3-(2H) — pyridazinone (maleic hydrazide)	Sprout inhibitor for raw onion and potatoes. Tolerance also requested for small residues which may remain in potato chips as a result	Pending
Monsanto Chemical Company, St. Louis, Mo. (3 petitions)	1,2 - dihydro-6-ethoxy-2,2,4 - trimethyl - quinoline	For use in feeds an forage to prevent loss of vitamin content	Tolerances granted for up to 150 parts per million in certain feeds and forage; 0.5 part per million in uncooked meat and meat by-products, eggs and poultry muscle meat; and 3 parts per million in uncooked poultry fat and liver. Petition still pending on additional forage crops
Wyeth Laboratories, Philadelphia	Benzathine Penicillin V	May be present in small amounts in milk as a result of use for treatment of mastitis in cattle	Pending
Dow Chemical Co., Midland, Mich.	calcium disodium (ethylene dinitrilo) tetracetic acid	For use in margarine, shortenings, spreads, etc., to preserve color and flavor; for use in a malt beverage to prevent "gushing"	Pending
Fairfield Chemicals, Food Machinery & Chemical Corporation, Baltimore, Md.	Piperonyl butoxide — Pyrenone 666	To protect ripening cheese from mites	Withdrawn by petitioners
The Upjohn Company, Kalamazoo, Mich.	Procaine penicillin, neomycin, polymixin, hydrocortisone acetate and hydrocortisone sodium succinate	May be present in milk as a result of drug use on dairy animals in the treatment of mastitis.	Pending
Hercules Powder Company, Wilmington, Del.	Polypropylene	May be present in fatty foods as result of use in food packaging materials	Pending

FDA Adds 2 More Drugs To Its Over-Counter List

Two more drug preparations—chlorcyclizine hydrochloride and methoxyphenamine hydrochloride—are proposed to be added to the growing list of over-the-counter drugs available for self-medication by an amendment to regulations announced last week by the Food and Drug Administration.

The agency proposes that preparations containing chlorcyclizine hydrochloride, to be used for temporary relief of hay fever, be labeled with single dosage recommendations for adults of not more than twenty-five milligrams nor more than seventy-five milligrams over a twenty-four hour period, with half of that allowed for children, six to twelve.

For methoxyphenomine hydrochloride to be used for temporary relief of coughs, due to minor conditions, a single dose limit for adults of thirty-five milligrams and one hundred and forty milligrams over a twenty-four hour period is recommended, with half of that for children.

Lead, Zinc Controls

—Continued from page 4

useless without a tariff on finished products, such as pipe and sheet. He thought a price of 15.5 cents would keep lead production up to desirable levels.

Also testifying before the committee were representatives of the silver, antimony, chromite, fluorspar and tungsten industries. They told the legislators that they needed government help in order to keep their mines open.

Hooker Expansion Plans

—Continued from page 3

some 10 percent. The Hooker program also calls for the following developments:

- Expansion of manufacturing facilities for wood flour at the Durex Division's Kenton, Ohio, plant. The move will almost double capacity. Completion is expected by October.
- Construction of a facility at Kenton for the manufacture of glass-filled phenolic molding compounds. Ground is to be broken within the next few days.
- One million dollars is to be spent on two projects at the Jeffersonville, Ind. headquarters of the phosphorus division. Construction has begun on facilities to bring into production a new process for making phosphates directly from ferro-phosphorus. Also a phosphoric acid plant will be replaced and expanded.

US Money Provided

—Continued from page 7

failed to point these nations in the direction of private enterprise," he urged that economic aid at the governmental level be sharply directed into well-defined basic areas such as public works, power and communications," leaving production of capital and consumer goods and services to private enterprise, "primarily the private entrepreneurs of the country itself, assisted by capital and technology from abroad where necessary and desired."

Speaking on government economic aid, Mr. Powers said he was for it when it helps a country build harbors, highways, dams, schools and hospitals, but against it when it is used to build government-owned factories or to finance state institutions which buy and sell in competition with private traders.

Above all, he said, "I am for economic aid which helps a businessman, whatever his nationality, build a factory and in so doing contributes to the economic growth of a country and its political stability. I am against economic aid which would make men mere creatures of the state."

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Chrysophenine, GS, 4,000 lbs., index no. 365; **Auramine** OE extra, 6,720 lbs., index no. 655; **Methyl Violet** 47290 lumps, 4,480 lbs., index no. 680; **Acid Orange** 55295, 11,200 lbs., index no. 151; **Brilliant Milling Violet** S 4R, 500 lbs., index no. 698; **Methylene Blue,** 2B Conc., index no. 922; **Acid Black** 47265, 1,120 lbs., index no. 246. S'A No. SCA 009410, PA No. 91-99-P1-9205, July 17, Pakistan Aniline & Chemical Co., Ltd., 54, The Mall, Lahore, Pakistan.

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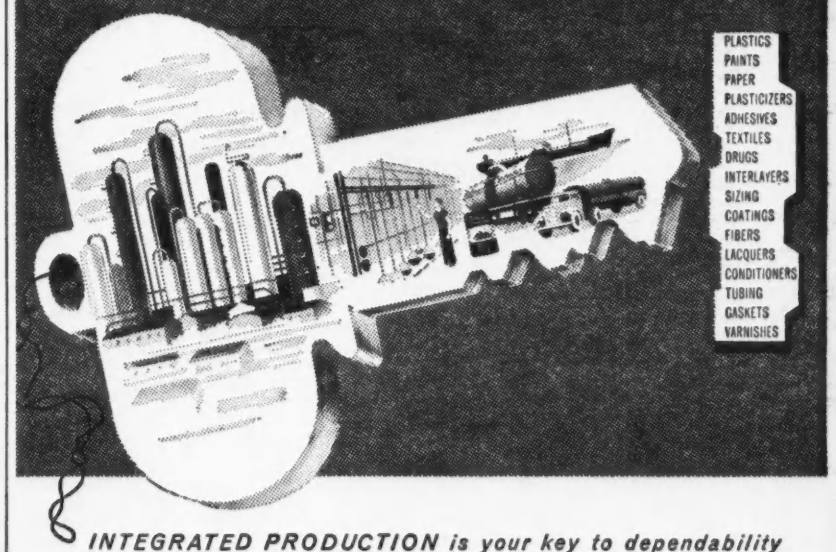

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